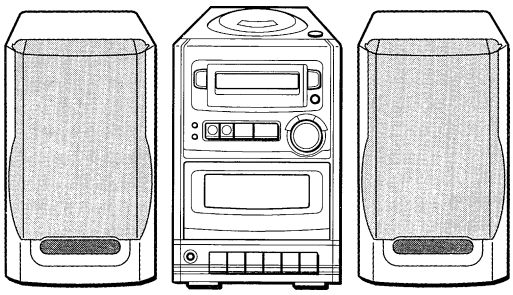
aiwa SERVICE

LCX-K170 HRJ(ST)



SERVICE MANUAL

COMPACT DISC
STEREO SYSTEM

BASIC TAPE MECHANISM : TN21ZSC-1653
BASIC CD MECHANISM : KSM-2131 BDM

This Service Manual is the “Revision Publishing” and replaces “Simple Manual” LCX-K170(HRJST)(S/M Code No.09-993-324-7T1).

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S/M Code No. 09-993-324-7R1

REVISION DATA

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SPECIFICATIONS

Main unit

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Antenna terminals	75 ohms (unbalanced)

AM tuner section

Tuning range	530 kHz to 1710 kHz (10 kHz step) 531 kHz to 1602 kHz (9 kHz step)
Antenna	Loop antenna

Amplifier section

Power output	Rated 3.5 W + 3.5 W (4 ohms, T.H.D. 1%, 1 kHz) Reference 5 W + 5 W (4 ohms, T.H.D. 10%, 1 kHz)

Cassette deck section

Track format	4 tracks, 2 channels stereo
Frequency response	Normal tape: 50 Hz – 12500 Hz
Recording system	AC bias
Erasure system	Magnet erase
Heads	Recording/playback head × 1 Erase head × 1

Compact disc player section

Laser	Semiconductor laser (λ = 780 nm)
D-A converter	1 bit dual
Wow and flutter	Unmeasurable
Video signal	NTSC/PAL color format (selectable)
Video data	MPEG 1
Audio data	MPEG 1, LAYER 2

Speaker system

Speakers	100 mm cone type, 4 ohms
Dimensions (W × H × D)	150 × 236.2 × 210.5 mm
Weight	1.1 kg

General

Power requirements	110-120V/220-240V AC, switchable 50/60 Hz
Power consumption	30 W
Dimensions of main unit (W × H × D)	160 × 236.2 × 209.3 mm
Weight of main unit	2.6 kg

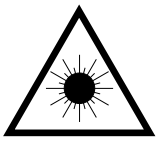
- Design and specifications are subject to change without notice.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynling laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

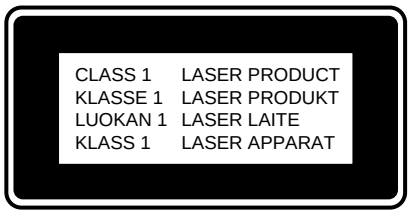
ATTENTION

L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

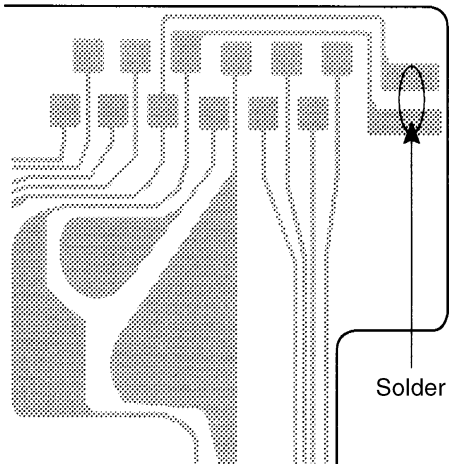


Precaution to replace Optical block (KSS-213B)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in the right figure.

PICK-UP Assy P.C.B



ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A20-591-010		IC,BA5417
	87-A21-373-010		IC,BA328
	87-A20-547-010		C-IC,CXA1992AR
	87-A20-919-040		C-IC,BA5915FP
	87-A20-917-010		C-IC,CXD2540Q-1/2
	84-ZG1-698-010		C-IC,UPD78016FGC-553
	87-A20-638-080		C-IC,PST9120
	87-A20-918-040		C-IC,SM5878AN
	87-A20-602-040		C-IC,M5291FP
	87-A20-925-040		C-IC,BA05FP
	87-A20-905-040		C-IC,BA033FP
	87-A20-920-010		C-IC,CL680-D1
	87-A20-921-040		C-IC,SN74LVU04APW
	87-A20-962-040		C-IC,MSM54V16258B/BSL
	84-ZG1-695-040		C-IC,LH5V2RN1
	87-A20-975-040		C-IC,SN74LV74APW
	87-A20-974-040		C-IC,LC74781M-9017
	88-CG6-608-010		C-IC,LC867248A-XXX
	87-A20-715-010		IC,M62439SP
	87-A20-914-010		IC,SPS-442-1-F
	87-070-127-110		IC,LC72131 D
	87-A20-913-010		IC,LA1837NL
TRANSISTOR			
	87-026-231-080		CHIP-TRANSISTER,DTA124XK
	89-111-625-080		TR,2SA1162 (0.15W)
	87-026-290-080		TR,DTA124X
	87-026-463-080		TR,2SA933S (0.3W)
	87-026-237-080		CHIP-TR,DTC124XK
	89-327-125-080		CHIP TR,2SC2712GR
	87-026-228-080		C-TR,DTA124EK
	87-026-580-080		C-TR,DTA123JK
	87-026-470-080		TR,HN1C03F (0.3W)
	87-A30-117-010		TR,2SA1357
	87-CD7-603-080		TR,SS8050
	87-026-291-080		TR,DTC124XS
	87-A30-146-080		TR,2SD1468SR
	89-113-184-080		TR,2SA1318T
	87-026-462-080		TR,2SC1740 S(RS 0.3W)
	87-A30-226-010		TR,2SB1655E
	87-A30-227-080		TR,2SB1010Q
	89-320-011-080		TR,2SC2001 (15W)
	87-A30-196-080		TR,2SC4115SRS
	89-327-143-080		TR,2SC2714 (0.1W)
	87-026-230-080		CHIP-TR,DTA114YK
DIODE			
	87-020-465-080		DIODE,1SS133 (110MA)
	87-070-136-080		ZENER,MTZJ5.1B
	87-A40-246-080		DIODE,IN4148 T-72
	87-020-027-080		CHIP-DIODE 1SS184
	87-017-024-040		C-DIODE,DA204K
	87-A40-180-040		C-DIODE,SB07-015C
	87-A40-465-010		DIODE,FR202
	87-070-345-080		DIODE,IN4148
	87-070-022-010		DIODE,IN5402 (RECT)
	87-A40-234-080		ZENER,MTZJ5.6A
	87-070-334-080		ZENER,MTZJ10B
	87-070-335-080		ZENER,MTZJ8.2B
	87-017-931-080		ZENER,MTZJ5.6B
	87-A40-347-080		ZENER,MTJ2.2B
MAIN C.B			
⚠	87-033-213-080		CLAMP, FUSE
C1	87-010-404-080		CAP, ELECT 4.7-50V
C2	87-010-405-080		CAP, ELECT 10-50V
C3	87-010-404-080		CAP, ELECT 4.7-50V
C4	87-010-405-080		CAP, ELECT 10-50V
C5	87-010-404-080		CAP, ELECT 4.7-50V
C6	87-010-405-080		CAP, ELECT 10-50V
C7	87-010-405-080		CAP, ELECT 10-50V
C8	87-010-404-080		CAP, ELECT 4.7-50V
C9	87-010-404-080		CAP, ELECT 4.7-50V
C10	87-018-131-080		CAP, CER 1000P-50V
C11	87-018-131-080		CAP, CER 1000P-50V
C301	87-018-128-080		CAP, CERA-SOL SS 560P
C302	87-010-378-080		CAP, ELECT 10-16V
C305	87-010-380-080		CAP, ELECT 47-16V
C307	87-010-405-080		CAP, ELECT 10-50V
C308	87-010-248-080		CAP, ELECT 220-10V
C309	87-010-405-080		CAP, ELECT 10-50V
C310	87-018-128-080		CAP, CERA-SOL SS 560P
C312	87-010-380-080		CAP, ELECT 47-16V
C313	87-010-378-080		CAP, ELECT 10-16V
C315	87-018-131-080		CAP, CER 1000P-50V
C318	87-018-131-080		CAP, CER 1000P-50V
C319	87-018-127-080		CAP, CER 470P-50V
C320	87-018-134-080		CAPACITOR,TC-U 0.01-16
C322	87-010-112-080		CAP, ELECT 100-16V
C325	87-010-401-080		CAP, ELECT 1-50V
C398	87-012-368-080		C-CAP,S 0.1-50 F
C401	87-010-401-080		CAP, ELECT 1-50V
C403	87-010-402-080		CAP, ELECT 2.2-50V
C404	87-010-401-080		CAP, ELECT 1-50V
C406	87-010-546-080		CAP, ELECT 0.33-50V
C407	87-010-546-080		CAP, ELECT 0.33-50V
C408	87-018-198-080		CAP,TC-U 2700P-16 X
C409	87-018-198-080		CAP,TC-U 2700P-16 X
C410	87-018-134-080		CAPACITOR,TC-U 0.01-16
C411	87-010-380-080		CAP, ELECT 47-16V
C412	87-010-380-080		CAP, ELECT 47-16V
C413	87-018-141-080		CAP, CERA-SOL SS 3.3P CH
C414	87-018-119-080		CAP, CER 100P-50V
C415	87-018-141-080		CAP, CERA-SOL SS 3.3P CH
C416	87-018-119-080		CAP, CER 100P-50V
C417	87-010-385-080		CAP, ELECT 220-25V
C418	87-018-134-080		CAPACITOR,TC-U 0.01-16
C419	87-010-380-080		CAP, ELECT 47-16V
C420	87-010-237-080		CAP, ELECT 1000-16V
C421	87-010-380-080		CAP, ELECT 47-16V
C422	87-010-237-080		CAP, ELECT 1000-16V
C425	87-016-658-090		CAP,E 4700-35 SMG
C426	87-010-197-080		CAP, CHIP 0.01 DM
C427	87-010-403-080		CAP, ELECT 3.3-50V
C428	87-018-205-080		CAP, CERA-SOL 0.022
C429	87-018-205-080		CAP, CERA-SOL 0.022
C430	87-018-205-080		CAP, CERA-SOL 0.022
C431	87-018-205-080		CAP, CERA-SOL 0.022
C432	87-018-134-080		CAPACITOR,TC-U 0.01-16
C433	87-018-134-080		CAPACITOR,TC-U 0.01-16
C434	87-018-134-080		CAPACITOR,TC-U 0.01-16
C435	87-010-248-080		CAP, ELECT 220-10V
C436	87-010-544-080		CAP, ELECT 0.1-50V
C437	87-010-380-080		CAP, ELECT 47-16V
C438	87-018-134-080		CAPACITOR,TC-U 0.01-16
C439	87-010-248-080		CAP, ELECT 220-10V
C440	87-010-404-080		CAP, ELECT 4.7-50V
C497	87-010-178-080		CHIP CAP 1000P
C498	87-010-178-080		CHIP CAP 1000P
C499	87-018-209-080		CAP, CER 0.1-50V
C501	87-010-401-080		CAP, ELECT 1-50V
C502	87-010-401-080		CAP, ELECT 1-50V
C504	87-010-545-080		CAP, ELECT 0.22-50V
C505	87-010-545-080		CAP, ELECT 0.22-50V
C506	87-018-119-080		CAP, CER 100P-50V

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C508	87-010-545-080		CAP, ELECT 0.22-50V
C509	87-010-545-080		CAP, ELECT 0.22-50V
C510	87-010-263-080		CAP, ELECT 100-10V
C511	87-018-132-080		CAP, CER 2200P-16V
C512	87-010-263-080		CAP, ELECT 100-10V
C701	87-010-381-080		CAP, ELECT 330-16V
C702	87-010-404-080		CAP, ELECT 4.7-50V
C703	87-010-197-080		CAP, CHIP 0.01 DM
C704	87-010-197-080		CAP, CHIP 0.01 DM
C711	87-010-263-080		CAP, ELECT 100-10V
C712	87-010-196-080		CHIP CAPACITOR,0.1-25
C713	87-010-197-080		CAP, CHIP 0.01 DM
C714	87-010-197-080		CAP, CHIP 0.01 DM
C715	87-010-322-080		C-CAP,S 100P-50 CH
C721	87-010-312-080		C-CAP,S 15P-50 CH
C722	87-010-312-080		C-CAP,S 15P-50 CH
C723	87-010-178-080		CHIP CAP 1000P
C725	87-010-178-080		CHIP CAP 1000P
C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C728	87-010-248-080		CAP, ELECT 220-10V
C756	87-010-197-080		CAP, CHIP 0.01 DM
C757	87-010-318-080		C-CAP,S 47P-50 CH
C758	87-010-149-080		C-CAP,S 5P-50 CH
C762	87-010-197-080		CAP, CHIP 0.01 DM
C763	87-010-194-080		CAP, CHIP 0.047
C764	87-010-319-080		C-CAP,S 56P-50 CH
C765	87-010-197-080		CAP, CHIP 0.01 DM
C766	87-010-197-080		CAP, CHIP 0.01 DM
C767	87-010-405-080		CAP, ELECT 10-50V
C768	87-010-197-080		CAP, CHIP 0.01 DM
C769	87-010-408-080		CAP, ELECT 47-50V
C770	87-010-194-080		CAP, CHIP 0.047
C771	87-010-407-080		CAP, ELECT 33-50V
C772	87-010-194-080		CAP, CHIP 0.047
C774	87-010-263-080		CAP, ELECT 100-10V
C775	87-010-404-080		CAP, ELECT 4.7-50V
C776	87-010-197-080		CAP, CHIP 0.01 DM
C777	87-010-400-080		CAP, ELECT 0.47-50V
C778	87-010-401-080		CAP, ELECT 1-50V
C779	87-010-401-080		CAP, ELECT 1-50V
C780	87-010-196-080		CHIP CAPACITOR,0.1-25
C781	87-010-405-080		CAP, ELECT 10-50V
C782	87-010-405-080		CAP, ELECT 10-50V
C783	87-010-197-080		CAP, CHIP 0.01 DM
C784	87-010-197-080		CAP, CHIP 0.01 DM
C785	87-010-403-080		CAP, ELECT 3.3-50V
C786	87-010-403-080		CAP, ELECT 3.3-50V
C789	87-010-179-080		CAP,CHIP S B1200P
C790	87-010-179-080		CAP,CHIP S B1200P
C791	87-010-405-080		CAP, ELECT 10-50V
C793	87-010-177-080		C-CAP,S 820P-50 SL
C794	87-010-406-080		CAP, ELECT 22-50
C795	87-010-194-080		CAP, CHIP 0.047
C796	87-010-403-080		CAP, ELECT 3.3-50V
C797	87-010-180-080		C-CER 1500P
C798	87-010-180-080		C-CER 1500P
C799	87-010-194-080		CAP, CHIP 0.047
C812	87-010-197-080		CAP, CHIP 0.01 DM
C814	87-010-197-080		CAP, CHIP 0.01 DM
C820	87-010-380-080		CAP, ELECT 47-16V
C821	87-010-197-080		CAP, CHIP 0.01 DM
C822	87-010-197-080		CAP, CHIP 0.01 DM
C823	87-010-197-080		CAP, CHIP 0.01 DM
C828	87-010-196-080		CHIP CAPACITOR,0.1-25
C829	87-010-196-080		CHIP CAPACITOR,0.1-25
C942	87-010-147-080		C-CAP,S 3P-50 CH
C959	87-010-196-080		CHIP CAPACITOR,0.1-25
C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C961	87-010-152-080		C-CAP,S 8P-50 CH
CF801	87-018-209-080		CAP, CER 0.1-50V
CF802	87-008-261-010		FILTER, SFE10.7MA5-A
CN401	87-099-043-010		CONN 2P EH
CN601	87-099-719-010		CONN,30P TYK-B(X)
CN701	87-033-239-010		TERMINAL,HSP-154V-2
⚠F401	87-035-457-010		FUSE,3.15A 250V TW/C
FFE801	A8-8ZA-193-070		8ZA-1 YFEUNC
J401	88-CL5-609-010		TERMINAL,SP 4P
J403	88-CL5-608-010		JACK,3.6 S W/SW
J501	87-A60-354-010		JACK,PIN 2P MSP -242V-05
L401	87-005-192-080		COIL,4.7UH K EL0606
L770	87-005-847-080		COIL,2.2UH(CECS)
L771	87-A50-165-010		COIL,FM DET-N(TOK)
L773	87-A90-733-010		FLTR,PCFAZH-450 (TOK)
L832	87-005-847-080		COIL,2.2UH(CECS)
L982	87-NF4-650-010		COIL,AM PACK 4N(TOK)
R340	87-029-370-010		RES,FUSE 2.2-1/2W
R440	87-029-370-010		RES,FUSE 2.2-1/2W
SW301	88-CL6-608-010		SW,RP 8CL6
T301	88-CL6-609-010		COIL,BIAS 8CL6
X772	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309

VCD C.B

C101	87-010-182-080		C-CAP,S 2200P-50 B
C102	87-016-669-080		C-CAP,S 0.1-25 K B
C103	87-016-669-080		C-CAP,S 0.1-25 K B
C104	87-016-669-080		C-CAP,S 0.1-25 K B
C105	87-010-404-040		CAP,E 4.7-50 SME
C106	87-016-369-080		C-CAP,S 0.033-50 B K
C107	87-010-197-080		CAP, CHIP 0.01 DM
C108	87-010-401-040		CAP,E 1-50 SME
C109	87-010-382-040		CAP,E 22-25 SME
C110	87-010-213-080		C-CAP,S 0.015-50 B
C111	87-010-263-040		CAP,E 100-10
C112	87-010-197-080		CAP, CHIP 0.01 DM
C113	87-016-369-080		C-CAP,S 0.033-50 B K
C114	87-016-369-080		C-CAP,S 0.033-50 B K
C115	87-016-369-080		C-CAP,S 0.033-50 B K
C116	87-012-158-080		C-CAP,S 390P-50 CH
C117	87-012-154-080		C-CAP,S 150P-50 CH
C118	87-010-494-040		CAP,E 1-50 GAS
C119	87-010-313-080		CAP, CHIP 18P
C120	87-010-992-080		C-CAP,S 0.047-25 B
C121	87-010-992-080		C-CAP,S 0.047-25 B
C123	87-016-669-080		C-CAP,S 0.1-25 K B
C125	87-010-198-080		CAP, CHIP 0.022
C126	87-016-669-080		C-CAP,S 0.1-25 K B
C127	87-010-555-040		CAP,E 100-10 GAS
C130	87-010-555-040		CAP,E 100-10 GAS
C131	87-010-555-040		CAP,E 100-10 GAS
C132	87-010-178-080		CHIP CAP 1000P
C133	87-010-555-040		CAP,E 100-10 GAS
C136	87-010-196-080		CHIP CAPACITOR,0.1-25
C137	87-010-196-080		CHIP CAPACITOR,0.1-25
C138	87-010-184-080		CHIP CAPACITOR 3300P(K)
C139	87-010-197-080		CAP, CHIP 0.01 DM
C140	87-010-112-040		CAP,E 100-16
C141	87-010-196-080		CHIP CAPACITOR,0.1-25
C142	87-010-196-080		CHIP CAPACITOR,0.1-25
C143	87-010-213-080		C-CAP,S 0.015-50 B
C151	87-010-263-040		CAP,E 100-10
C152	87-010-197-080		CAP, CHIP 0.01 DM
C153	87-016-251-040		CAP,E 220-16 SMG
C154	87-010-190-080		S CHIP F 0.01
C155	87-010-184-080		CHIP CAPACITOR 3300P(K)
C156	87-010-992-080		C-CAP,S 0.047-25 B
C157	87-010-992-080		C-CAP,S 0.047-25 B
C158	87-012-156-080		C-CAP,S 220P-50 CH
C159	87-016-526-080		C-CAP,S 0.47-16 BK
C160	87-010-314-080		C-CAP,S 22P-50V

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C161	87-010-182-080		C-CAP,S 2200P-50 B
C162	87-010-178-080		CHIP CAP 1000P
C201	87-016-669-080		C-CAP,S 0.1-25 K B
C206	87-010-322-080		C-CAP,S 100P-50 CH
C207	87-010-322-080		C-CAP,S 100P-50 CH
C208	87-010-322-080		C-CAP,S 100P-50 CH
C209	87-010-322-080		C-CAP,S 100P-50 CH
C210	87-016-669-080		C-CAP,S 0.1-25 K B
C211	87-010-263-040		CAP,E 100-10
C212	87-010-197-080		CAP, CHIP 0.01 DM
C213	87-010-190-080		S CHIP F 0.01
C214	87-010-196-080		CHIP CAPACITOR,0.1-25
C234	87-010-196-080		CHIP CAPACITOR,0.1-25
C235	87-010-196-080		CHIP CAPACITOR,0.1-25
C238	87-010-184-080		CHIP CAPACITOR 3300P(K)
C252	87-010-197-080		CAP, CHIP 0.01 DM
C281	87-010-197-080		CAP, CHIP 0.01 DM
C282	87-010-197-080		CAP, CHIP 0.01 DM
C283	87-010-112-040		CAP,E 100-16
C284	87-010-196-080		CHIP CAPACITOR,0.1-25
C285	87-010-197-080		CAP, CHIP 0.01 DM
C286	87-010-197-080		CAP, CHIP 0.01 DM
C287	87-010-313-080		CAP, CHIP 18P
C288	87-010-313-080		CAP, CHIP 18P
C289	87-010-178-080		CHIP CAP 1000P
C290	87-010-178-080		CHIP CAP 1000P
C291	87-010-178-080		CHIP CAP 1000P
C292	87-010-178-080		CHIP CAP 1000P
C293	87-010-403-040		CAP,E 3.3-50 SME
C294	87-010-403-040		CAP,E 3.3-50 SME
C295	87-010-318-080		C-CAP,S 47P-50 CH
C296	87-010-318-080		C-CAP,S 47P-50 CH
C301	87-016-251-040		CAP,E 220-16 SMG
C302	87-012-140-080		CAP 470P
C302	87-010-178-080		CHIP CAP 1000P
C304	87-010-197-080		CAP, CHIP 0.01 DM
C304	87-010-384-040		CAP,E 100-25 SME
C305	87-010-982-040		CAP,E 33-25 GAS
C306	87-010-112-040		CAP,E 100-16
C307	87-010-179-080		CAP,CHIP S B1200P
C307	87-010-196-080		CHIP CAPACITOR,0.1-25
C308	87-010-263-040		CAP,E 100-10
C309	87-010-196-080		CHIP CAPACITOR,0.1-25
C310	87-010-263-040		CAP,E 100-10
C311	87-010-196-080		CHIP CAPACITOR,0.1-25
C312	87-010-178-080		CHIP CAP 1000P
C320	87-010-196-080		CHIP CAPACITOR,0.1-25
C331	87-010-197-080		CAP, CHIP 0.01 DM
C332	87-010-197-080		CAP, CHIP 0.01 DM
C333	87-010-197-080		CAP, CHIP 0.01 DM
C334	87-010-154-080		CAP CHIP 10P
C335	87-010-154-080		CAP CHIP 10P
C336	87-010-197-080		CAP, CHIP 0.01 DM
C338	87-010-263-040		CAP,E 100-10
C339	87-016-669-080		C-CAP,S 0.1-25 K B
C340	87-010-263-040		CAP,E 100-10
C341	87-010-196-080		CHIP CAPACITOR,0.1-25
C342	87-010-197-080		CAP, CHIP 0.01 DM
C343	87-010-197-080		CAP, CHIP 0.01 DM
C344	87-010-197-080		CAP, CHIP 0.01 DM
C348	87-010-322-080		C-CAP,S 100P-50 CH
C349	87-012-145-080		CAP, CHIP S 270P CH
C350	87-012-157-080		C-CAP,S 330P-50 CH
C351	87-012-154-080		C-CAP,S 150P-50 CH
C352	87-010-221-080		CAP,ELECT 470-10V
C353	87-010-197-080		CAP, CHIP 0.01 DM
C354	87-010-197-080		CAP, CHIP 0.01 DM
C355	87-010-197-080		CAP, CHIP 0.01 DM
C356	87-010-197-080		CAP, CHIP 0.01 DM
C357	87-010-197-080		CAP, CHIP 0.01 DM

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C358	87-010-197-080		CAP, CHIP 0.01 DM
C359	87-010-197-080		CAP, CHIP 0.01 DM
C360	87-010-197-080		CAP, CHIP 0.01 DM
C361	87-010-197-080		CAP, CHIP 0.01 DM
C362	87-010-374-080		CAP, ELECT 47-10V
C363	87-010-197-080		CAP, CHIP 0.01 DM
C364	87-010-555-040		CAP,E 100-10 GAS
C365	87-010-197-080		CAP, CHIP 0.01 DM
C366	87-010-374-080		CAP, ELECT 47-10V
C367	87-010-190-080		S CHIP F 0.01
C368	87-010-196-080		CHIP CAPACITOR,0.1-25
C369	87-010-196-080		CHIP CAPACITOR,0.1-25
C370	87-010-374-080		CAP, ELECT 47-10V
C371	87-010-197-080		CAP, CHIP 0.01 DM
C372	87-010-318-080		C-CAP,S 47P-50 CH
C374	87-010-197-080		CAP, CHIP 0.01 DM
C376	87-010-197-080		CAP, CHIP 0.01 DM
C379	87-010-494-040		CAP,E 1-50 GAS
C381	87-012-153-080		C-CAP,S 120P-50 CH
C382	87-016-526-080		C-CAP,S 0.47-16 BK
C386	87-010-197-080		CAP, CHIP 0.01 DM
C387	87-010-316-080		C-CAP,S 33P-50 CH
C388	87-A11-167-080		C-CAP,S 27P-50 F CH
C390	87-010-197-080		CAP, CHIP 0.01 DM
CN101	87-A60-424-010		CONN,16P V TOC-B
CN102	8Z-CL8-681-010		CONN ASSY,6P CD MOTOR
CN103	87-099-043-010		CONN 2P EH
J301	87-009-502-010		JACK,PIN 1P Y EARTH
L101	87-005-196-080		COIL,10UH
L301	87-A50-095-010		COIL,68UH RCR875D
L302	87-005-426-080		COIL,3.3UH K FLR50
L312	87-005-204-080		COIL,47UH
L313	87-005-189-080		COIL 2.7UH
L314	87-005-187-080		COIL,1.8UH
L315	87-005-204-080		COIL,47UH
L316	87-005-204-080		COIL,47UH
L317	87-005-204-080		COIL,47UH
L318	87-005-817-080		C-COIL, 33UH J FLC32
R130	87-022-364-080		C-RES,S 82K-1/10W F
R131	87-022-364-080		C-RES,S 82K-1/10W F
R132	87-022-364-080		C-RES,S 82K-1/10W F
R133	87-022-364-080		C-RES,S 82K-1/10W F
R134	87-022-364-080		C-RES,S 82K-1/10W F
R135	87-022-364-080		C-RES,S 82K-1/10W F
S201	88-CDV-607-010		SW,SL 2-2-3 SK23D02G9
X201	87-030-270-080		VIB,XTAL 16.9344MHZ
X202	87-A70-124-080		VIB,CER 8.0MHZ
X302	87-A70-125-080		VIB,XTAL 27MHZ 50PPM
FRONT C.B			
C54	87-010-197-080		CAP, CHIP 0.01 DM
C55	87-010-401-080		CAP, ELECT 1-50V
C56	87-010-263-080		CAP, ELECT 100-10V
C501	87-010-248-080		CAP, ELECT 220-10V
C503	87-010-197-080		CAP, CHIP 0.01 DM
C508	87-010-197-080		CAP, CHIP 0.01 DM
C510	87-012-368-080		C-CAP,S 0.1-50 F
C511	87-010-400-080		CAP, ELECT 0.47-50V
C512	87-010-312-080		C-CAP,S 15P-50 CH
C513	87-010-320-080		CHIP CAP 68P
C514	87-010-316-080		C-CAP,S 33P-50 CH
C515	87-010-312-080		C-CAP,S 15P-50 CH
C516	87-010-314-080		C-CAP,S 22P-50 CH
C517	87-012-368-080		C-CAP,S 0.1-50 F
CN502	87-A60-390-010		CONN,3P H BGE TKX-P03P-A1
L500	87-003-226-080		MICRO INDUCTOR 100UH
LCD501	88-CL5-605-010		LCD,AIW4124-30PIN
S501	87-036-170-080		TACT SWITCH
S503	87-036-170-080		TACT SWITCH

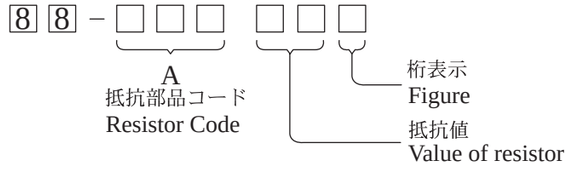
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
S504	87-036-170-080		TACT SWITCH
S505	87-036-170-080		TACT SWITCH
S506	87-036-170-080		TACT SWITCH
S507	87-036-170-080		TACT SWITCH
S508	87-036-170-080		TACT SWITCH
S509	87-036-170-080		TACT SWITCH
S511	87-036-170-080		TACT SWITCH
S512	87-036-170-080		TACT SWITCH
S513	87-036-170-080		TACT SWITCH
S514	87-036-170-080		TACT SWITCH
S515	87-036-170-080		TACT SWITCH
X501	87-030-273-010		VIB,XTAL 32.768K5PPM
X502	87-A70-070-080		VIB,CER 5.76MHZ CRHF
LED C.B			
D545	87-CL5-602-010		LED,SLR342-MG3F
D546	87-CL5-602-010		LED,SLR342-MG3F
D547	87-CL5-602-010		LED,SLR342-MG3F
D548	87-CL5-602-010		LED,SLR342-MG3F
D549	87-CL5-602-010		LED,SLR342-MG3F

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
D550	87-CL5-602-010		LED,SLR342-MG3F
D551	87-CL5-602-010		LED,SLR342-MG3F
D552	87-CL5-602-010		LED,SLR342-MG3F
D553	87-CL5-602-010		LED,SLR342-MG3F
AC C.B			
SW C.B			
⚠	87-033-213-080		CLAMP, FUSE
⚠F2	87-035-219-010		FUSE,500MA 250V T218
⚠SW451	87-A90-146-010		SW,SL 1-1-2
⚠T1	87-A60-317-010		TERMINAL, 1P MSC
⚠T2	87-A60-317-010		TERMINAL, 1P MSC
⚠T3	87-A60-317-010		TERMINAL, 1P MSC
MOTOR C.B			
M2	9X-262-513-210		SLED MOTOR ASSY
PIN3	91-564-722-110		CONNECTOR 6P
SW1	91-572-085-110		LEAF SW

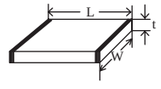
- Regarding connectors, they are not stocked as they are not the initial order items.
  The connectors are available after they are supplied from connector manufacturers upon the order is received.

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding

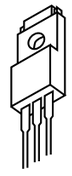


チップ抵抗
Chip resistor

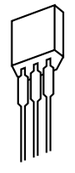
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION

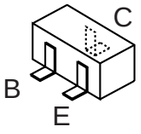
E C B
2SA933
2SA1318
2SB1010
2SC2001
2SC4115
2SD1468
SS8050



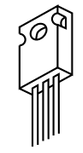
B C E
2SB1655



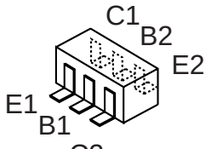
E C B
2SC1740
DTA124XS
DTC124XS
RN1410



2SA1162
2SC2712
2SC2714
DTA114YK
DTA123JK
DTA124EK
DTA124XK
DTC124XK



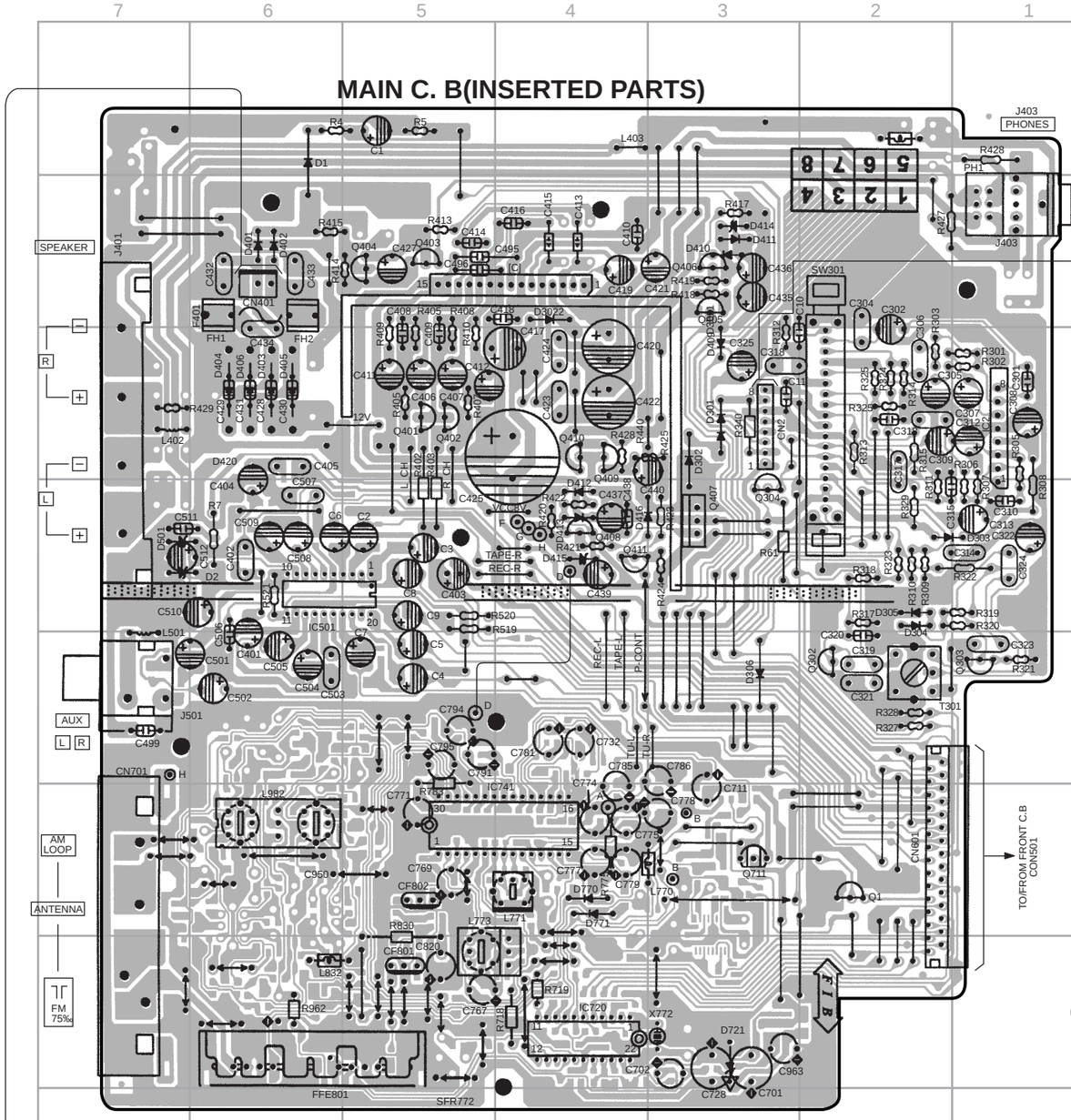
E C B
2SA1357



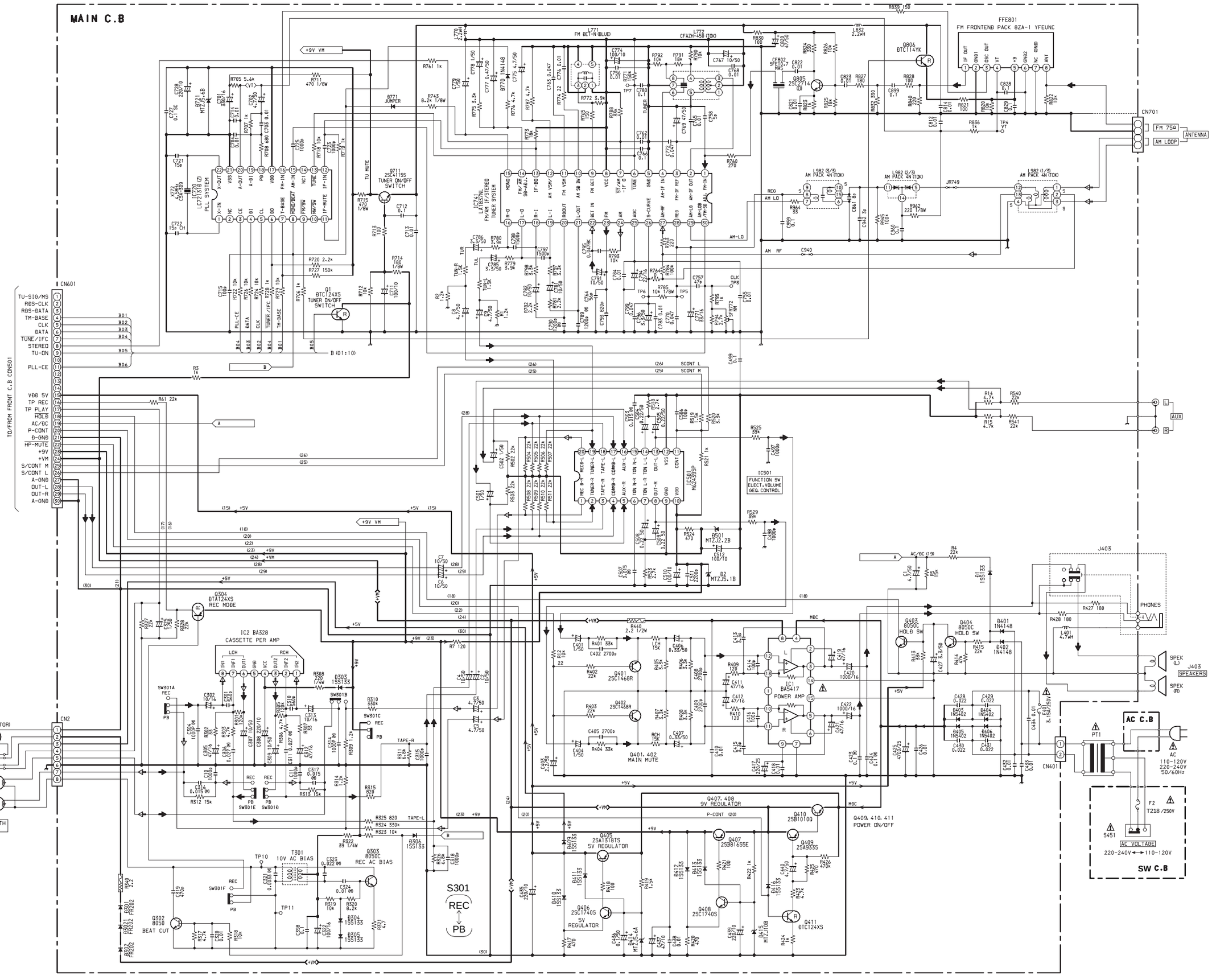
HN1C03F

WIRING-1 (MAIN)

MAIN C. B(INSERTED PARTS)



SCHEMATIC DIAGRAM-1 (MAIN)



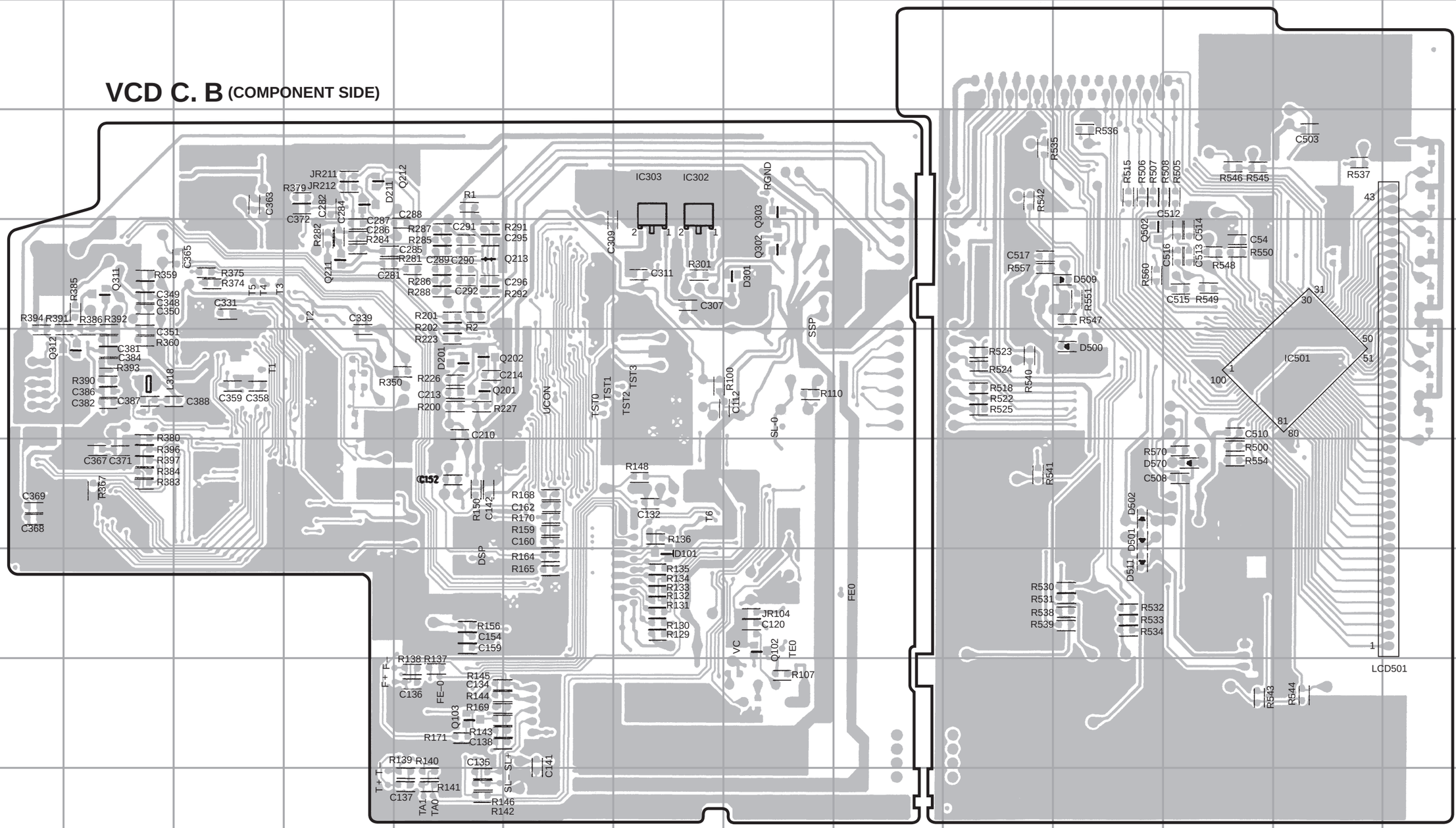
WIRING-2 (VCD/FRONT)

1 2 3 4 5 6 7 8 9 10 11 12 13 14

A B C D E F G H I J

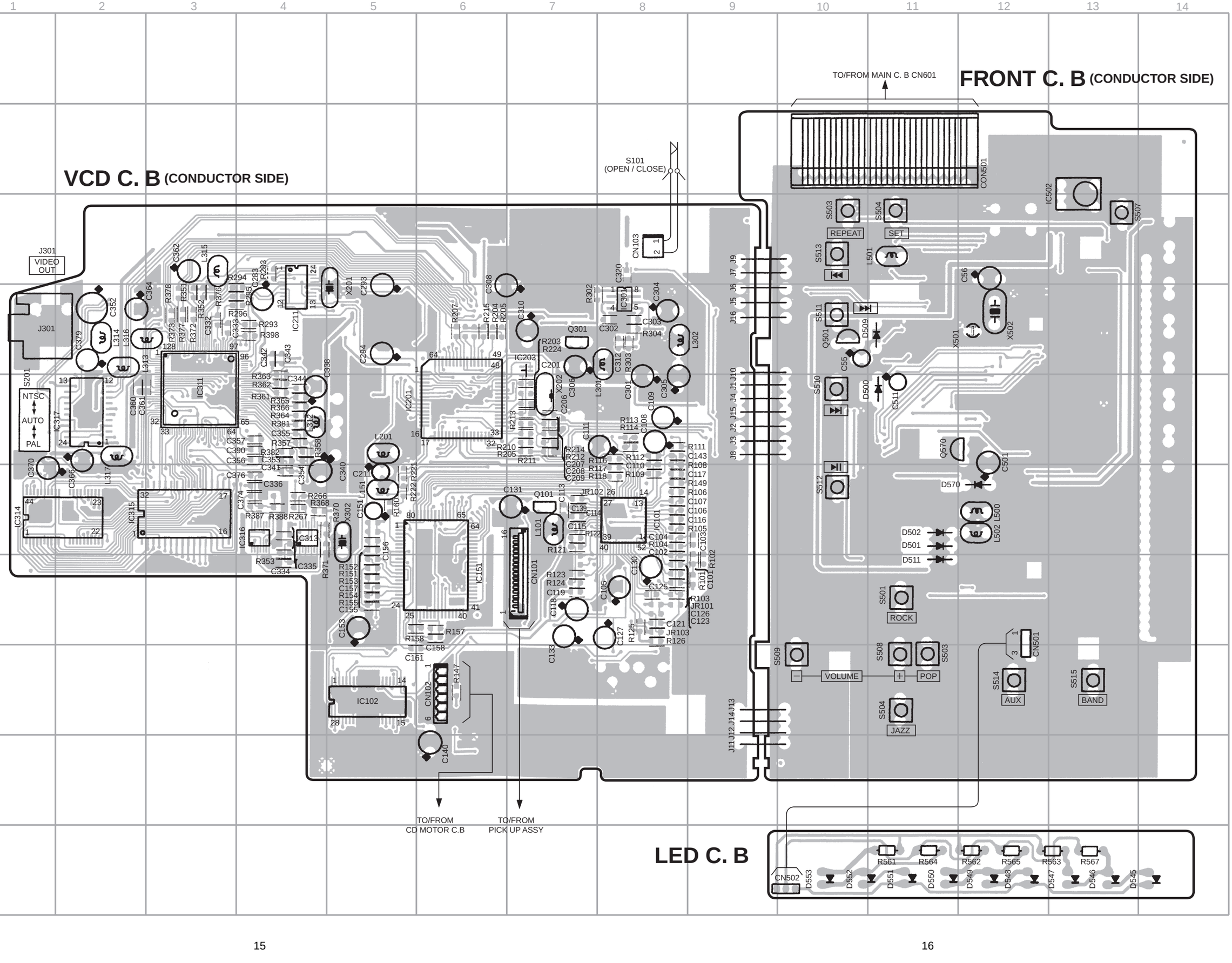
VCD C. B (COMPONENT SIDE)

FRONT C. B (COMPONENT SIDE)

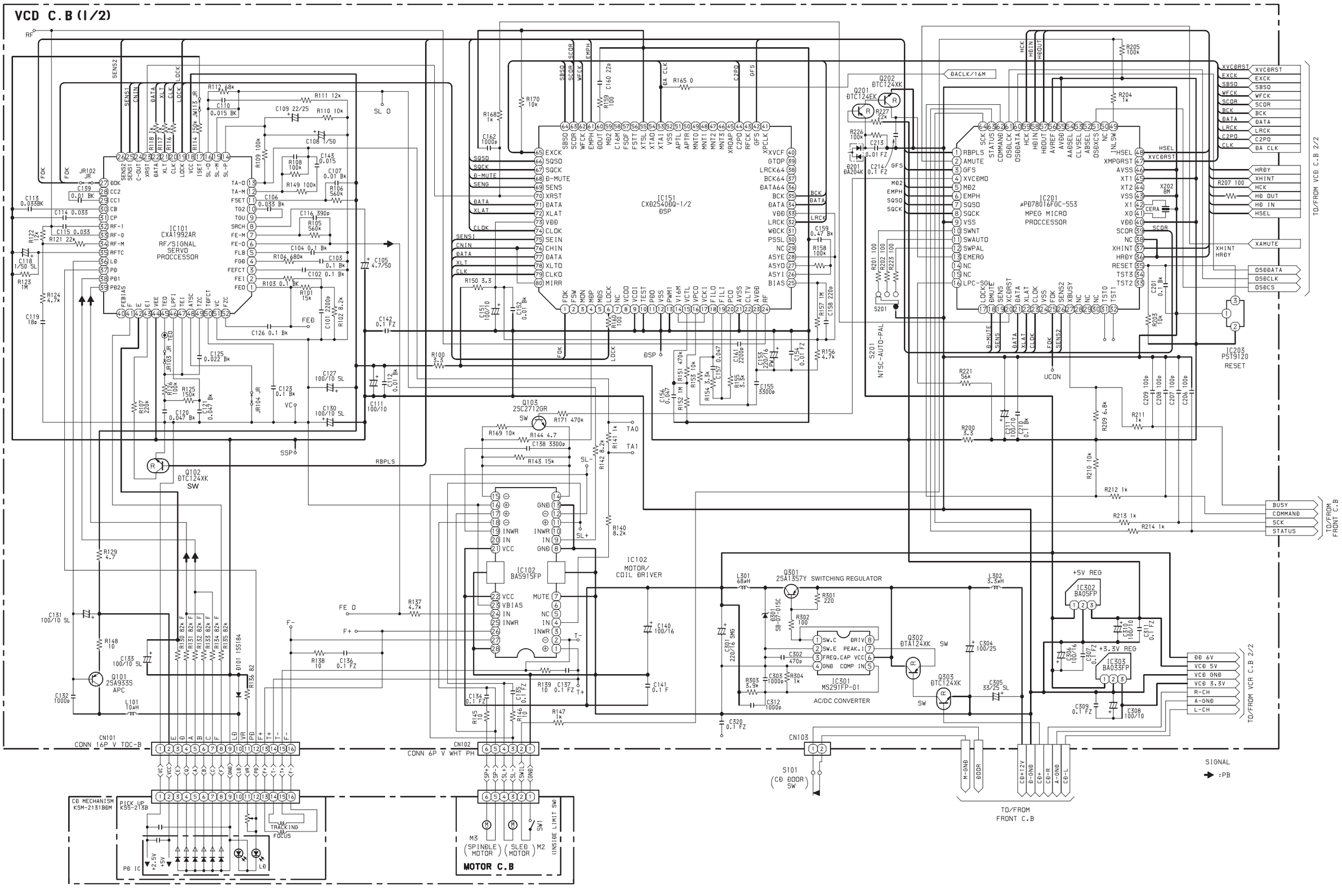


VCD C. B (CONDUCTOR SIDE)

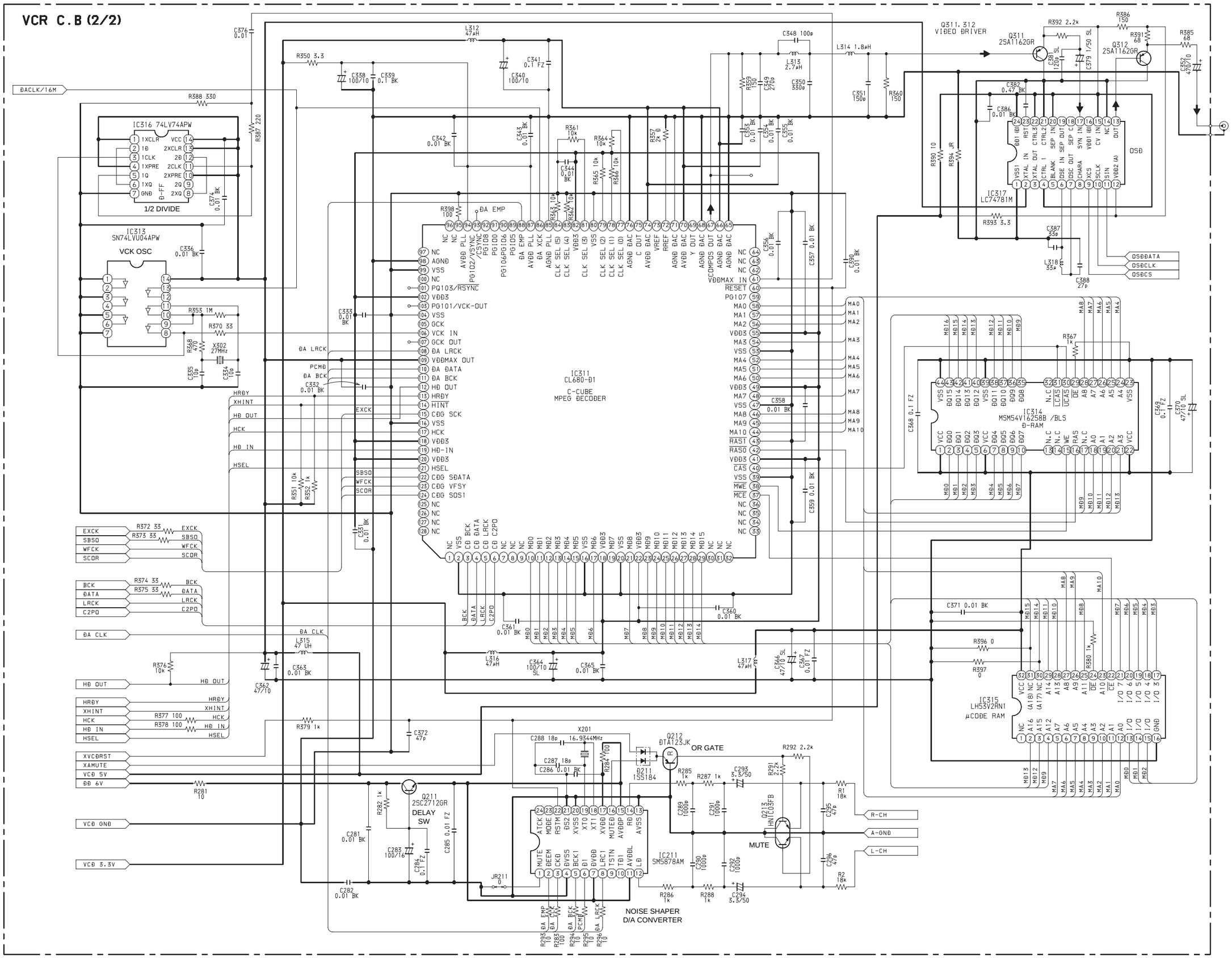
FRONT C. B (CONDUCTOR SIDE)



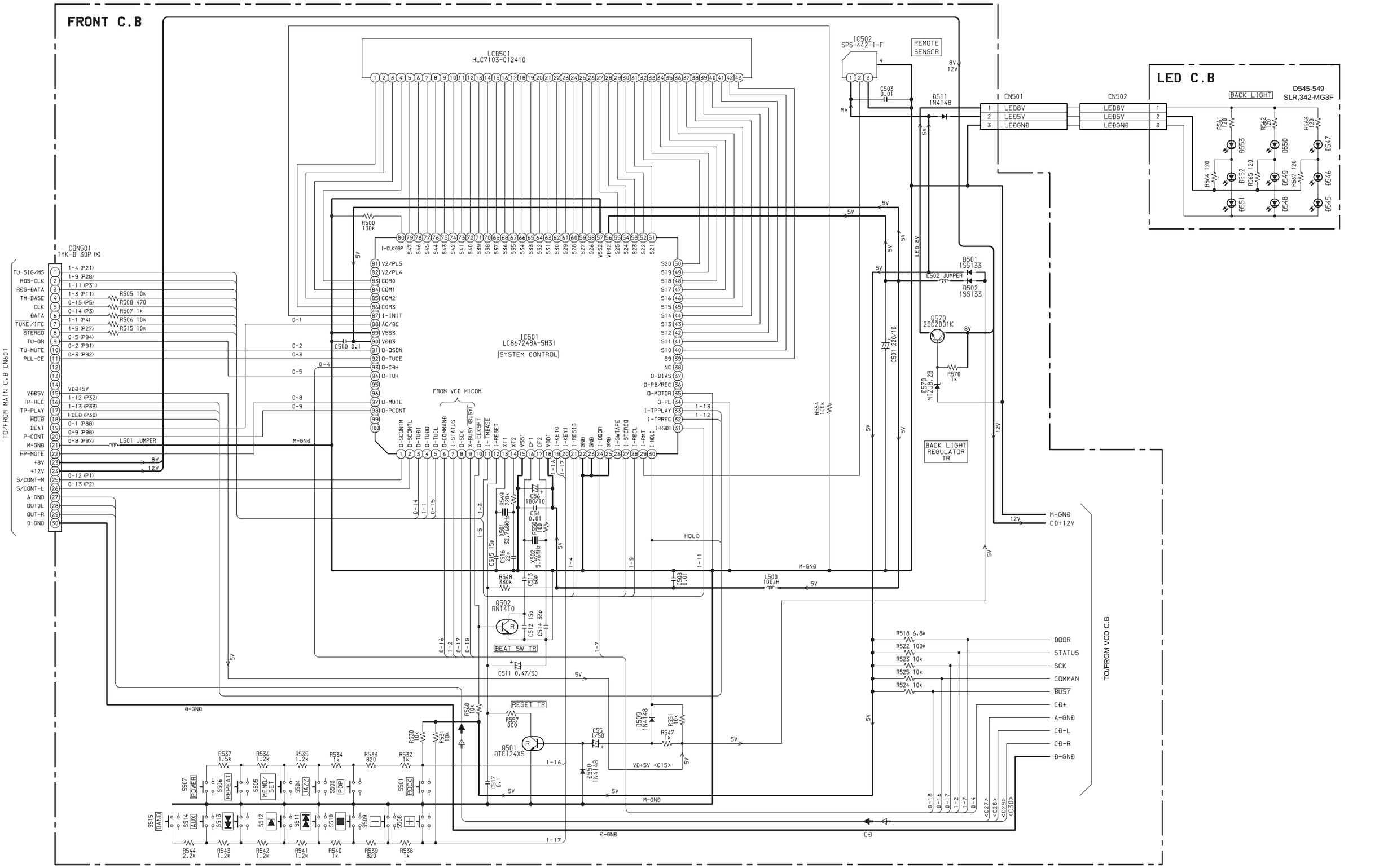
SCHEMATIC DIAGRAM-2 (VCD 1/2)



SCHEMATIC DIAGRAM-3 (VCD 2/2)



SCHEMATIC DIAGRAM-4 (FRONT)



VOLTAGE CHART

Test Condition: DC12V, Battery " - " as reference.

IC316 74LV74APW

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Voltage	4.99	2.47	2.39	4.99	2.34	2.47	0	2.48	2.49	4.99	2.34	2.48	4.99	4.99

IC313 SN74LVU04APW

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Voltage	0	4.99	0	4.99	0	4.99	0	2.4	2.42	2.42	2.42	2.64	2.2	4.99

IC311 CL680

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Voltage	0	0	2.44	0	2.59	4.96	0	0	0	0.56	0.53	0.56	0.49	0.48	0.55	0
Pin No.	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Voltage	0.93	3.15	0.45	0	0	3.16	0.57	0.54	0	0.56	0	0	0	0	0	0
Pin No.	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
Voltage	0	0	0	0	3.15	3.14	0	3.12	3.15	3.11	3.13	0	0	0	0	0
Pin No.	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Voltage	3.15	0	3.10	3.08	0	0	3.15	0	3.10	0	0	4.97	4.99	0	0	0
Pin No.	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
Voltage	0	3.27	0.63	0	0.49	3.27	0	1.27	3.16	3.27	0.35	0	3.15	3.15	3.15	0
Pin No.	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
Voltage	3.14	3.15	0	0	0	2.20	3.29	0	0	0	3.29	0	3.26	3.29	0	2.60
Pin No.	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112
Voltage	0.70	0	0	0	2.91	3.16	3.28	0	0.39	2.43	3.03	2.60	4.99	0	2.55	4.96
Pin No.	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128
Voltage	4.99	4.99	0	0	4.95	3.16	4.50	3.16	4.83	3.40	2.51	0	1.14	0	0	0

IC315 LH53V2R00N

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Voltage	0	0	0	0	2.5	1.43	1.06	0.47	0	1.34	1.39	0.47	1.96	1.95	0	0
Pin No.	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Voltage	1.96	0	0	0	1.95	3.15	0	0	0	0.85	1.92	0	0	0	0	3.3

IC314 MSM54V16258BS-40

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Voltage	3.3	1.95	1.95	0	1.96	3.3	0	0	0	1.95			0	0	3.14
Pin No.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Voltage	2.11	0.85	0.47	1.39	0.73	1.06	3.31	0	0	1.32	0.98	1.28	1.28	0	3.13
Pin No.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	
Voltage	3.13	0			0.58	0.34	0.45	0.45	0	0.78	0.85	1.01	0.85	0	

IC211 SM5878AM

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12
Voltage	0	0	2.15	0	2.55	0	4.60	2.60	4.50	0	4.60	2.26
Pin No.	13	14	15	16	17	18	19	20	21	22	23	24
Voltage	0	0	4.60	4.53	4.56	2.21	2.09	0	0	4.97	4.48	4.48

IC317 LC74781

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12
Voltage	0	2.47	5.02	5.01	4.53	2.44	2.52	5.01	4.80	4.94	0	4.82
Pin No.	13	14	15	16	17	18	19	20	21	22	23	24
Voltage	1.35	0	1.34	5.01	2.38	2.02	4.65	5.01	0	5.01	5.00	5.01

IC151 CXD2540Q-2

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Voltage	0	0	0	2.47	0.95	0	0	4.96	0	0	2.16	0	0	1.69	0	0
Pin No.	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Voltage	1.68	3.19	2.56	2.55	0	3.19	4.95	2.49	0.87	2.49	2.56	4.97	0	0	2.65	2.59
Pin No.	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
Voltage	4.97	0	2.44	0	2.44	2.59	4.96	4.96	2.38	0	2.51	4.96	0	4.35	3.29	3.29
Pin No.	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Voltage	0	1.35	1.35	0	2.20	3.17	0	3.00	2.39	1.72	0	0	0	2.51	0	3.70
Pin No.	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
Voltage	0	0	4.96	0	2.23	4.97	0	4.97	4.97	4.97	0	0	0	4.96	4.96	0

IC101 CXA1992AR

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13
Voltage	1.77	2.23	2.21	2.46	2.44	2.90	2.47	2.70	2.46	2.38	0.79	2.47	2.47
Pin No.	14	15	16	17	18	19	20	21	22	23	24	25	26
Voltage	2.46	2.47	2.46	1.29	4.43	0	4.96	4.96	0	4.97	0	0	4.92
Pin No.	27	28	29	30	31	32	33	34	35	36	37	38	39
Voltage	0	2.22	3.68	3.07	1.26	2.47	2.48	2.47	2.59	4.71	0.77	2.48	2.48
Pin No.	40	41	42	43	44	45	46	47	48	49	50	51	52
Voltage	2.48	2.48	2.48	2.48	0	2.47	2.42	2.47	2.48	2.47	2.45	2.48	2.47

IC102 BA5915FP

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Voltage	0	0	0	2.47	0	0	0	0	2.47	2.47	2.91	2.51	0	2.47
Pin No.	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Voltage	0	0	2.52	2.50	2.47	2.47	5.56	5.56	2.48	0	0	0	0	0

No.	b	c	e
Q202	0	2.43	2.48
Transistor	DTC124XK		

No.	b	c	e
Q211	5.30	5.38	4.60
Transistor	2SC2712GR		

No.	b	c	e
Q212	0	3.96	3.99
Transistor	DTA123JK		

No.	1	2	3
D211	4.53	4.60	3.98
Diode	1SS184		

No.	1	2	3
D301	0	0	5.78
Diode	5B-07-015C		

No.	b	c	e
Q201	0	5.41	5.57
Transistor	DTA124EK		

No.	b	c	e
Q302	0	0	0
Transistor	DTC124XK		

No.	b	c	e
Q101	4.71	1.72	4.95
Transistor	2SA933S		

IC DESCRIPTION

IC, CXA1992AR

Pin No.	Pin Name	I/O	Description
1	FEO	O	Output terminal for focus error amplifier. Internally connected to window comparator input for bias condition.
2	FEI	I	Input terminal for focus error.
3	FDFCT	I	Capacitor connection terminal for time constant used when there is defect.
4	FGD	I	This pin is connected to GND via capacitor when high frequency gain of the focus servo is attenuated.
5	FLB	I	This is a pin where the time constant is externally connected to raise the low frequency gain of the focus servo.
6	FE_O	O	Focus drive output.
7	FEM	I	Focus amplifier inverted input pin.
8	SRCH	I	This is a pin where the time constant is externally connected to generate the focus search waveform.
9	TGU	I	This is a pin where the selection time constant is externally connected to set the tracking servo the high frequency gain.
10	TG2	I	This is a pin where the selection time constant is externally connected to set the tracking high frequency gain.
11	FSET	I	Pin for setting peak of the phase compensator of the focus tracking.
12	TA_M	I	Tracking amplifier inverted input pin.
13	TA_O	O	Tracking drive output.
14	SL_P	I	Sled amplifier non-inverted input pin.
15	SL_M	I	Sled amplifier inverted input pin.
16	SL_O	O	Sled drive output.
17	ISET	I	The current which determines height of the focus search, track jump and sled kick is input with external resistance connected.
18	Vcc	I	Power supply.
19	LOCK	I	“L” setting starts sled disorder-prevention circuit. (Not pull-up resistance)
20	CLK	I	Clock input for serial data transfer from CPU. (No pull-up resistance)
21	XLT	I	Latch input from CPU. (No pull-up resistance)
22	DATA	I	Serial data input from CPU. (No pull-up resistance)
23	XRST	I	Reset system at “L” setting. (No pull-up resistance)
24	C_OUT	O	Signal output for track number counting.
25	SENS1	O	FZC, DFCT1, TZC, BALH, TGH, FOH, or ATSC is output depending on the command from CPU.
26	SENS2	O	DFCT2, MIRR, BALL, TGL or FOL is output depending on the command from CPU.
27	FOK	O	Output terminal for focus OK comparator.
28	CC2	I	Input pin where the DEFECT bottom hold output is capacitance coupled.
29	CC1	O	DEFECT bottom-hold output terminal. Internally connected to interruption comparator input.
30	CB	I	Connection terminal for DEFECT bottom-hold capacitor.
31	CP	I	Connection terminal for MIRR hold-capacitor. Anti-reverse input terminal for MIRR comparator.

Pin No.	Pin Name	I/O	Description
32	RF_I	I	Input terminal by capacity combination of RF summing amplifier.
33	RF_O	O	Output terminal of RF summing amplifier. Checkpoint of Eye pattern.
34	RF_M	I	Anti-reverse input terminal for RF summing amplifier. The gain of RF amplifier is decided by the connection resistance between RF_M and RFO terminals.
35	RFTC	I	This is a pin where the selection time constant is externally connected to control the RF level.
36	LD	O	APC amplifier output terminal.
37	PD	I	APC amplifier input terminal.
38, 39	PD1, PD2	I	RFI-V amplifier inverted input pin. These pins are connected to the A+C and B+C pins of the optical pickup, receiving by currents input.
40	FEBIAS	I/O	Bias adjustment pin of the focus error amplifier.
41, 42	F, E	I	F and EIV amplifier inverted input pins. These pins are connected to the F and E of the optical pickup, receiving by current input.
43	EI	—	Gain adjustment pin of the I-V amplifier E. (When not in use of BAL automatic adjustment)
44	VEE	—	GND connection pin.
45	TEO	O	Output terminal for tacking-error amplifier. Output E-F signal.
46	LPFI	I	BAL adjustment comparator input pin. (Input through LPF from TEO)
47	TEI	I	Input terminal for tracking error.
48	ATSC	I	Window-comparator input terminal for detecting ATSC.
49	TZC	I	Input terminal for tracking-zero cross comparator.
50	TDFCT	I	Capacitor connection pin for the time constant used when there is defect.
51	VC	O	Output terminal for DC voltage reduced to half of VCC+VEE.
52	FZC	I	Input terminal for focus-zero cross comparator.

IC, CXD2540Q

Pin No.	Pin Name	I/O	Description
1	FOK	I	Focus OK input. Used for SENS output and the servo auto sequencer.
2	FSW	O	Spindle motor output filter switching output.
3	MON	O	Spindle motor on/off control output.
4	MDP	O	Spindle motor servo control.
5	MDS	O	
6	LOCK	O	High, when sampled value of GFS at 460Hz is high. Low, when sampled value of GFS at 460Hz is low by 8 times successively.
7	NC		
8	VCOO	O	Analog EFM PLL oscillation circuit output.
9	VCOI	I	Analog EFM PLL oscillation circuit input. fLOCK=8.6436MHz.
10	TEST	I	TEST pin.
11	PDO	O	Analog EFM PLL charge pump output.
12	VSS		GND.
13	PWMI	I	Spindle motor external control input.
14	V16M	O	VCO2 oscillation output for the wide-band EFM PLL.
15	VCTL	I	VCO2 control voltage input for the wide-band EFM PLL.
16	VPCO	O	Wide-band EFM PLL charge pump output.
17	VCKI	I	VCO2 oscillation input for the wide-band EFM PLL.
18	FILO	O	Multiplier PLL (slave=digital PLL) filter output.
19	FILI	I	Multiplier PLL filter input.
20	PCO	O	Multiplier PLL charge pump output.
21	AVSS		Analog GND.
22	CLTV	I	Multiplier VCO1 control voltage input.
23	AVDD		Analog power supply (5V).
24	RF	I	EFM signal input.
25	BIAS	I	Constant current input of the asymmetry circuit.
26	ASYI	I	Asymmetry comparator voltage input.
27	ASYO	O	EFM full-swing output.
28	ASYE	I	Low: asymmetry circuit off; high: asymmetry circuit on.
29	NC		
30	PSSL	I	Audio data output mode switching input. Low: serial output; high: parallel output.
31	WDCK	O	D/A interface for 48-bit slot. Word clock f=2Fs.
32	LRCK	O	D/A interface for 48-bit slot. LR clock f=Fs.
33	VDD		Power supply (5V).
34	DA16	O	DA16 (MSB) output when PSSL=1. 48-bit slot serial data (two's complement, MSB first) when PSSL=0.
35	DA15	O	DA15 output when PSSL=1. 48-bit slot bit clock when PSSL=0.
36	DA14	O	DA14 output when PSSL=1. 64-bit slot serial data (two's complement, LSB first) when PSSL=0.
37	DA13	O	DA13 output when PSSL=1. 64-bit slot bit clock when PSSL=0.
38	DA12	O	DA12 output when PSSL=1. 64-bit slot LR clock when PSSL=0.

Pin No.	Pin Name	I/O	Description
39	DA11	O	DA11 output when PSSL=1. GTOP output when PSSL=0.
40	DA10	O	DA10 output when PSSL=1. XUGF output when PSSL=0.
41	DA09	O	DA09 output when PSSL=1. XPLCK output when PSSL=0.
42	DA08	O	DA08 output when PSSL=1. GFS output when PSSL=0.
43	DA07	O	DA07 output when PSSL=1. RFCK output when PSSL=0.
44	DA06	O	DA06 output when PSSL=1. C2PO output when PSSL=0.
45	DA05	O	DA05 output when PSSL=1. XRAOF output when PSSL=0.
46	DA04	O	DA04 output when PSSL=1. MNT3 output when PSSL=0.
47	DA03	O	DA03 output when PSSL=1. MNT2 output when PSSL=0.
48	DA02	O	DA02 output when PSSL=1. MNT1 output when PSSL=0.
49	DA01	O	DA01 output when PSSL=1. MNT0 output when PSSL=0.
50	APTR	O	Aperture compensation control output. This pin outputs a high signal when the right channel is used.
51	APTL	O	Aperture compensation control output. This pin outputs a high signal when the left channel is used.
52	VSS		GND.
53	XTAI	I	Crystal oscillation circuit input.
54	XTAO	O	Crystal oscillation circuit output.
55	XTSL	I	Crystal selector input.
56	FSTT	O	2/3 frequency divider output for Pins 53 and 54.
57	FSOF	O	1/4 frequency divider output for Pins 53 and 54.
58	C16M	O	16.9344MHz output. (V16M output in CLV-W and CAV-W modes)
59	MD2	I	Digital-out on/off control. High: on; low: off
60	DOUT	O	Digital-out output.
61	EMPH	O	Outputs a high signal when the playback disc has emphasis, and a low signal when there is no emphasis.
62	WFCK	I	WFCK (write frame clock) output.
63	SCOR	O	Outputs a high signal when either subcode sync S0 or S1 is detected.
64	SBSO	O	Sub P to W serial output.
65	EXCK	I	SBSO readout clock input.
66	SQSO	O	Sub Q 80-bit and PCM peak, level metter and internal status outputs.
67	SQCK	I	SQSO readout clock input.
68	MUTE	I	High: mute; low: release
69	SENS	—	SENS output to CPU.
70	XRST	I	System reset. Reset when low.
71	DATA	O	Serial data input from CPU.
72	XLAT	O	Latch input from CPU. Serial data is latched at the falling edge.
73	VDD		Power supply (5V).
74	CLOK	O	Serial data transfer clock input from CPU.
75	SEIN	I	SENS input from SSP.
76	CNIN	I	Track jump count signal input.

Pin No.	Pin Name	I/O	Description
77	DATO	O	Serial data output to SSP.
78	XLTO	O	Serial data latch output to SSP. Latched at the falling edge.
79	CLKO	O	Serial data transfer clock output to SSP.
80	MIRR	I	Mirror signal input. Used when the number of tracks is 128 or more for the 2N-track jump and M track move of the auto sequencer.

Notes)

- The 64-bit slot is an LSB first, two's complement output, and the 48-bit slot is an MSB first, two's complement output.
- GTOP is used to monitor the frame sync protection status. (High: sync protection window open.)
- XUGF is the negative pulse for the frame sync obtained from the EFM signal. It is the signal before sync protection.
- XPLCK is the inverse of the EFM PLL clock. The PLL is designed so that the falling edge and the EFM signal transition point coincide.
- GFS goes high when the frame sync and the insertion protection timing match.
- RFCK is derived from the crystal accuracy, and has a cycle of 136µ.
- C2PO represents the data error status.
- XRAOF is generated when the 32K RAM exceeds the ±28F jitter margin.

IC, CL680-D1

Pin No.	Pin Name	I/O	Description
1	NC	—	No connection.
2	VSS	—	GND.
3	CD BCK	I	Bit clock input from CD DSP.
4	CD DATA	I	Data input from CD DSP.
5	CD LRCK	I	LRCK input from CD DSP.
6	CD C2PO	I	C2 pointer input from CD DSP.
7-9	NC	—	No connection.
10-15	MD0-MD5	I/O	DRAM/ROM interface. (DATA)
16	VSS	—	Ground.
17	MD6	I/O	DRAM/ROM interface. (DATA)
18	VDD3	—	Power supply 3.3V.
19	MD7	I/O	DRAM/ROM interface. (DATA)
20	VSS	—	Ground.
21	MD8	I/O	DRAM/ROM interface. (DATA)
22	VDD3	—	Power supply 3.3V.
23-29	MD9-MD15	I/O	DRAM/ROM interface. (DATA)
30-36	NC	—	No connection.
37	$\overline{\text{MCE}}$	—	ROM chip enable.
38	$\overline{\text{MWE}}$	O	DRAM write enable.
39	VSS	—	Ground.
40	$\overline{\text{CAS}}$	O	DRAM/ROM interface.
41	VDD3	—	Power supply 3.3V.
42	$\overline{\text{RASO}}$	O	DRAM/ROM interface.
43	$\overline{\text{RASI}}$	O	
44-46	MA10-MA8	O	DRAM/ROM interface. (Address)
47	VSS	—	Ground.
48	MA7	O	DRAM/ROM interface. (Address)
49	VDD3	—	Power supply 3.3V.
50-52	MA6-MA4	O	DRAM/ROM interface. (Address)
53	VSS	—	Ground.
54	MA3	O	DRAM/ROM interface. (Address)
55	VDD3	—	Power supply 3.3V.
56-58	MA2-MA0	O	DRAM/ROM interface. (Address)
59	PGIO7	I/O	Programmable I/O.
60	$\overline{\text{RESET}}$	I	Reset input.
61	VDD MAX IN	—	Power supply - VDDMAX. (5.0V)
62-64	NC	—	No connection.
65	AGND DAC	—	Analog ground.
66	A DAC	—	Analog power supply (DAC) : 3.3V.
67	COMP OUT	O	Composite out.
68	AGND DAC	—	Analog ground.

Pin No.	Pin Name	I/O	Description
69	Y OUT	O	Video signal “Y” OUT.
70	AVDD DAC	—	Analog power supply (DAC) 3.3V.
71	AGND DAC	—	Analog ground.
72	R REF	I	Reference resistor input.
73	V REF	I	Voltage reference input.
74	AVDD DAC	—	Analog power supply (DAC) : 3.3V.
75	C OUT	O	Video signal “C” out.
76	AGND DAC	—	Analog ground.
77-79	CLK SEL0-2	I	Clock selection input.
80	VSS	—	Ground.
81	CLK SEL3	I	Clock selection input.
82	VDD3	—	Power supply 3.3V.
83, 84	CLK SEL4, 5	I	Clock selection input.
85	AGND PLL	—	Analog ground.
86	DA XCK	I	DA XCK (16.933MHz) input.
87	AVDD PLL	—	Analog power supply 3.3V.
88	DA EMP	O	DAC-emphasis output.
89, 90	PGIO5, O6	I/O	Programmable I/O.
91	PGIO0	I/O	
92	PGIO8	I/O	
93	$\overline{\text{VSYNC}}/\overline{\text{CSYNC}}$	O	$\overline{\text{VSYNC}}/\overline{\text{CSYNC}}$ output.
94	AVDD PLL	—	Analog power supply (PLL) 3.3V.
95	VID_DAC_CK	O	Video DAC clock.
96	PROC_CK	O	Processor clock.
97	AUD_XCK	O	Audio XCK.
98	AGND PLL	—	Analog ground.
99	VSS	—	Ground.
100	NC	—	No connection.
101	$\overline{\text{HSYNC}}$	O	$\overline{\text{HSYNC}}$ output.
102	VDD3	—	Power supply 3.3V.
103	VCK OUT	O	VCK out.
104	VSS	—	Ground.
105	GCK	I	Global clock signal input. (42.3MHz)
106	VCK	I	Video clock signal input. (27.0MHz)
107	GCK OUT	O	Global clock signal output. (27.0MHz)
108	DA LRCK	O	DAC-LRCK output.
109	VDD MAX OUT	—	Power supply (VDD MAX) : 5.0V.
110	DA DATA	O	DAC-PCM data output.
111	DA BCK	O	DAC-BIT clock output.
112	HD OUT	O	Micon interface. (Data out)
113	HRDY	O	Micon interface. (Host ready)

Pin No.	Pin Name	I/O	Description
114	$\overline{\text{HINT}}$	O	Micon interface. (Host interrupt)
115	CDG SCK	I	CD-G serial clock input.
116	VSS	—	Ground.
117	HCK	I	Micon interface. (Host clock)
118	VDD3	—	Power supply 3.3V.
119	HD IN	I	Micon interface. (Host data in)
120	VDD3	—	Power supply 3.3V.
121	HSEL	I	Micon interface. (Host select in)
122	CDG DATA	I	CD-G data input.
123	CDG VFSY	I	CD-G VFSY input.
124	CDG SOSI	I	CD-G SOSI input.
125	DSP-XCK	O	DSP-XCK output.
126-128	NC	—	No connection.

IC, LC867248A-5H31

Pin No.	Pin Name	I/O	Description
1	O-SCONTM	O	M62439SP control. open drain output.
2	O-SCONTL	O	
3	O-TUDI	O	Tuner control. CMOS output.
4	I-TUDO	I	Tuner control.
5	O-TUCL	O	Tuner control. CMOS output.
6	O-COIN	O	CD control. open drain output.
7	I-SQOUT	I	CD control.
8	O-$\overline{\text{CQCK}}$	O	CD control. open drain output.
9	O-RWC	O	
10	O-$\overline{\text{CLKSFT}}$	O	Clock shift output. “L” during shift. open drain output.
11	I-TMBASE	I	8 Hz time base input.
12	I-$\overline{\text{RESET}}$	I	Reset input.
13, 14	NC	I/O	Not used.
15	VSS1	—	GND.
16, 17	CF1, CF2	I/O	Main clock input/output 5.76 MHz.
18	VDD1	—	+5V.
19	I-KEY0	I	KEY0 A/D input.
20	I-KEY1	I	KEY1 A/D input.
21	I-RDSIG	I	RDS signal level input. (A/D input)
22	I-WRQ	I	CD control.
23	I-DRF	I	
24	I-DOOR	I	CD door SW detection SW input. “L” at CLOSE.
25	I-PUIN	I	CD pick-up detection SW input. “L” at ON.
26	I-SWTAPE	I	Tape detection SW input. (A/D input)
27	I-$\overline{\text{STEREO}}$	I	Monaural/stereo indication selector input. “L” at stereo.
28	I-RDCL	I	RDS clock input.
29	I-$\overline{\text{REM}}$	I	Remote control input. (fall-down edge interrupt input)
30	I-$\overline{\text{HOLD}}$	I	Hold mode detection. “L” at hold mode.
31	I-RDDT	I	RDS data input.
32	I-TPREC	I	Tape REC detection input. “H” at REC.
33	I-TPPLAY	I	Tape PLAY detection input. “H” at PLAY.
34	O-PL	O	Mechanism deck plunger solenoid ON/OFF output. “H” at ON. CMOS output .
35	O-MOTOR	O	Mechanism deck motor ON/OFF output. “H” at ON. CMOS output.
36-38	NC	O	Not used.
39-55	S9-S25	O	LCD SEG terminal Initial setting output. (S10 to S16)
56	VDD2	—	+5V.
57	VSS2	—	GND.
58-79	S26-S47	O	LCD SEG terminal .
80	I-CLKDSP	I	Watch indication select input “L”: 12H. “H”: 24H.
81	I-AS	I	Auto stop. counter input .
82	I-$\overline{\text{STOP}}$	I	Tape stop input.

Pin No.	Pin Name	I/O	Description
83-86	COM0-COM3	O	LCD common output.
87	I-INIT	I	Initial setting input.
88	O-BEAT	O	Beat selector output. “H” during selection. CMOS output .
89	VSS3	—	GND.
90	VDD3	—	5V.
91	O-QSDON	O	Q sound ON/OFF output. “H” at ON. CMOS output .
92	O-TUCE	O	Tuner chip enable output. CMOS output .
93	O-CD-ON	O	“H” output during CD function. CMOS output.
94	O-TU-ON	O	“H” output during TU function. Open drain output.
95	O-RMT	O	REC mute output. “H” during mute. Open drain output.
96	O-$\overline{\text{REC}}$/PB	O	REC/PB select output. “H” during PB. Open drain output.
97	O-MUTE	O	Mute output. “H” during mute. Open drain output.
98	O-PCONT	O	Power control output. “H” at ON. CMOS output.
99	O-BIAS	O	REC bias ON/OFF output. “H” at ON. Open drain output.
100	NC	O	Not used.

IC, SM5878AN

Pin No.	Pin Name	I/O	Description
1	MUTE	I	MODE = H: Soft mute ON/OFF terminal. (Mute at H). MODE = L: Attenuator level DOWN/UP terminal. (DOWN at H).
2	DEEM	I	De-emphasis ON/OFF terminal. (De-emphasis ON at H).
3	CKO	O	Oscillator clock output. (16.9344 MHz).
4	DVSS	—	Digital VSS terminal.
5	BCKI	I	Bit clock input terminal.
6	DI	I	Serial data input terminal.
7	DVDD	—	Digital VDD terminal.
8	LRCI	I	Sample rate clock (fs) input terminal. (H = L ch/L = R ch).
9	TSTN	I	Test input. (“H” or open during normal operation)
10	TO1	O	Test output 1. (Normally low level output).
11	AVDDL	—	Analog VDD terminal. (For L ch).
12	LO	O	Left channel analog output terminal.
13	AVSS	—	Analog VSS terminal.
14	RO	O	Right channel analog output terminal.
15	AVDDR	—	Analog VDD terminal. (For R ch).
16	MUTEO	O	Infinity zero detection output.
17	XVDD	—	X’tal system VDD terminal.
18	XTI	I	X’tal oscillator terminal. (Or external clock input terminal of 16.9344 MHz).
19	XTO	O	X’tal oscillator terminal.
20	XVSS	—	X’tal system VSS terminal.
21	DS	I	Double-speed/normal playback selection. (Double-speed at H).
22	RSTN	I	Reset terminal. (Reset at L).
23	MODE	I	Soft mute/Attenuator mode selection. (Soft mute at H).
24	ATCK	I	Attenuator level setup clock (Ignored when MODE = H).

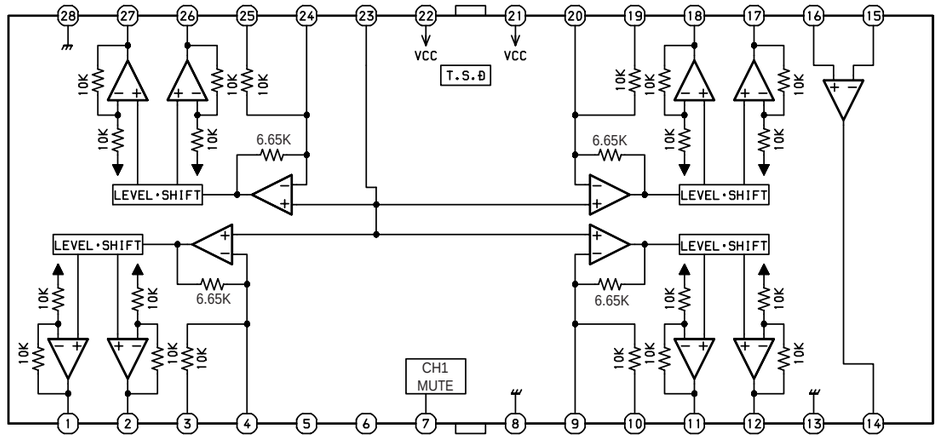
IC, LC74781M-9017

Pin No.	Pin Name	I/O	Description
1	VSS1	—	GND connection terminal. (Digital ground terminal).
2	Xtal IN	I	External X'tal and capacitor for internal sync generator, or the external clock are connected to this terminal. (2fsc or 4fsc).
3	Xtal OUT	O	
4	CTRL1	I	Either the external clock input mode or the X'tal generator mode is selected by this selector terminal. L: X'tal generator mode, H: External clock input.
5	BLANK	O	Blank signal (character and the green ORed signal) is output from this terminal. (MODE 0: composite sync signal is output at H.) When reset ($\overline{RST}$ terminal = L), the X'tal clock signal is output. (It is not output when reset by the reset command).
6	OSC IN	I	External coil and capacitor for the character output dot clock generator are connected to this terminal.
7	OSC OUT	O	
8	CHARA	O	The character signal is output from this terminal. (MOD 0: when H, the external sync signal identification signal is output from this terminal. This output signal tells whether the external sync signal is present or not. When external sync signal is present, H is output.) When reset ($\overline{RST}$ terminal = L), the dot clock signal (LC oscillator) is output. (It is not output when reset by the reset command).
9	$\overline{CS}$	I	Enable signal for the serial data input is input to this terminal. The serial data input is enabled at L. Pull-up resistor is built-in. (Hysteresis input).
10	SCLK	I	Clock of the serial data input is input to this terminal. Pull-up resistor is built-in. (Hysteresis input).
11	SIN	I	Serial data input terminal. Pull-up resistor is built-in. (Hysteresis input).
12	VDD2	—	Power supply for the composite video signal level adjustment. (Analog power supply).
13	CV OUT	O	Composite video signal output terminal.
14	NC	—	Connected to GND or not connected.
15	CV IN	I	Composite video signal input terminal.
16	VDD1	—	Power supply (+5V digital power supply).
17	SYN IN	I	Video signal for the internal sync separator circuit is input to this terminal. (When the internal sync separator circuit is not used, the horizontal sync signal or composite sync signal is input to this terminal).
18	SEP C	—	Internal sync separator circuit bias voltage monitoring terminal.
19	SEP OUT	O	The composite sync output signal of the internal sync separator circuit is output from this terminal. (H: MOD 1. H: during internal sync mode. L: during external sync mode.) (When internal sync separator circuit is not used, the SYN IN input signal is output from this terminal).
20	SEP IN	I	The output signal of the SEP OUT terminal is integrated so that the vertical sync signal is input to this terminal. An integrator circuit must be connected between the SEP OUT terminal and this terminal. When this terminal is not used, it must be connected to VDD1.
21	CTRL2	I	When selecting any of the NTSC or PAL or PAL-M or PAL-N system, the pin setting has priority. When L, the NTSC system is selected after resetting. Selection of either NTSC or PAL or PAL-M or PAL-N system by the command becomes effective. H: PAL-M system.

Pin No.	Pin Name	I/O	Description
22	CTRL3	I	Controls whether or not to input the $\overline{\text{VSYNC}}$ signal to the SEPIN input. L: to input the $\overline{\text{VSYNC}}$ signal. H: not to input the $\overline{\text{VSYNC}}$ signal.
23	$\overline{\text{RST}}$	I	System reset input terminal. Pull-up resistor is built-in. (Hysteresis input).
24	VDD1	—	Power supply. (+5V digital power supply).

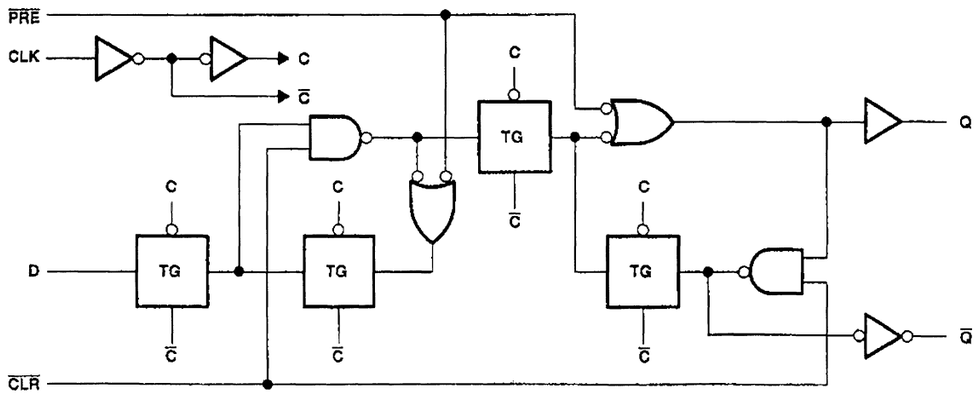
IC BLOCK DIAGRAM

IC, BA5915FP

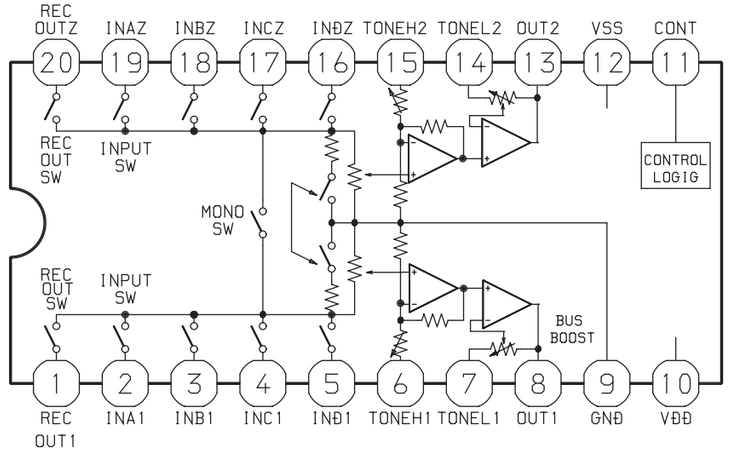


T.S.D: Thermal shut-down
Resistors are in units of Ω.

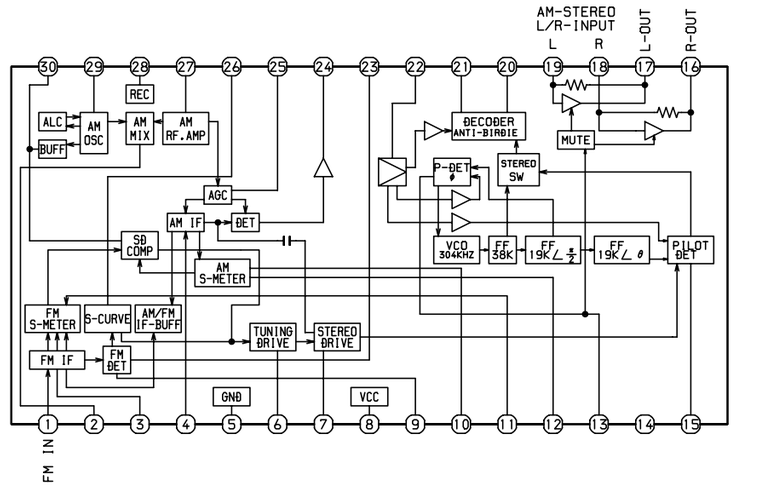
IC, SN74LV74APW



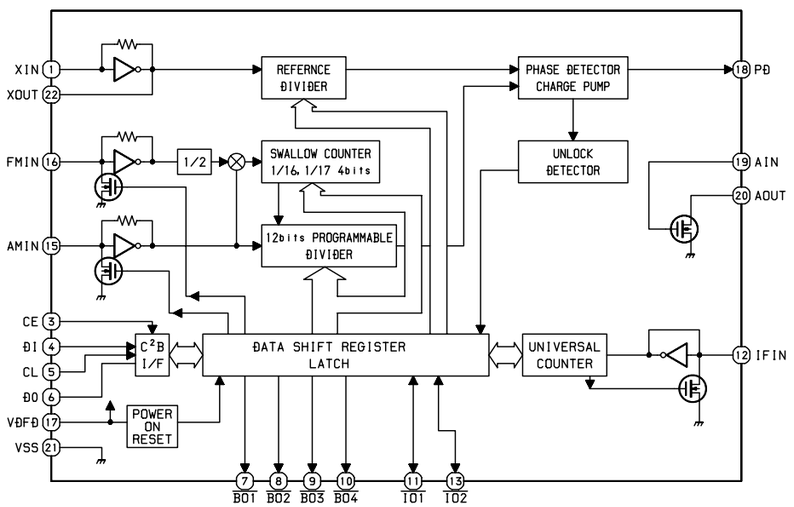
IC, M62439SP

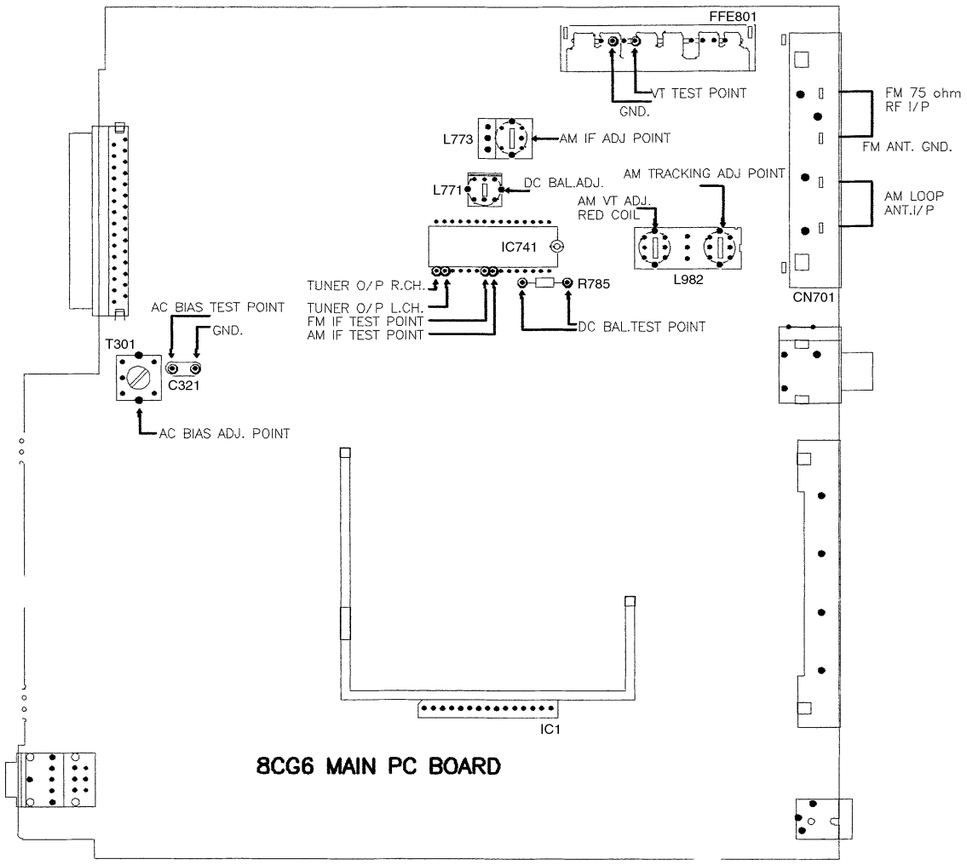


IC, LA1837NL

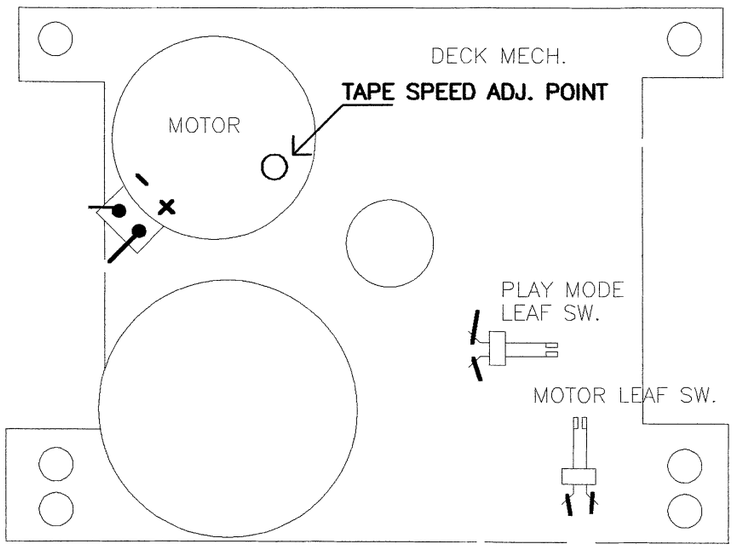


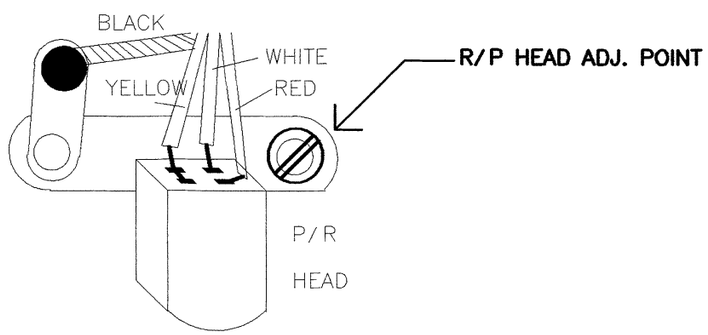
IC, LC72131





ADJASTMENT ITEM	ADJ. POINT	TEST POINT	SET FREQ.	SETTING
AM VT ADJ.	L982 RED COIL	FFE801 4PIN TO GND.	1710KHz (1602KHz)	5.5V+/-0.1V(U/LH) (5.1V+/-0.1V)(D/HR)
AM VT CHECK	-	FFE801 4PIN TO GND.	530KHz (531KHz)	0.9V+/-0.5V(U/LH) (1.1V+/-0.5V)(D/HR)
AM TRACKING ADJ.	L982 YELLOW COIL	TUNER O/P L/R	600KHz (603KHz)	MAX.Output Sine Wave(Min.Dist.)
FM VT ADJ.	-	FFE801 4PIN TO GND.	106 MHz	7.2V+/-0.5V(U/LH/HR) (8.4V+/-0.5V)(D)
FM VT CHECK	-	FFE801 4PIN TO GND.	87.5MHz (76 MHz)	1.1V+/-0.5V(U/LH/HR) (0.8V+/-0.5V)(D)
DC BAL. ADJ.	L771	Both Terminal OF R785	98 MHz (92 MHZ)	0 mv (+/- 20 mv)
FM IF CHECK	-	IC 741 PIN 22	10.7 MHz	-
AM IF ADJ.	L773	IC 741 PIN 24	450 KHz	-
REC. BAIAS FREQ. ONLY CHECK	-	C319,321 Common/GND	-	77KHz +/-5KHz (With R/P HEAD)
REC.BIAS LEVEL ADJ.	T301	C319,321 Common/GND	-	10 V +/- 0.5V (With R/P HEAD)
BEAT CUT ST / ON MONO/OFF	TEST ONLY	C319,321 Common/GND	FM 98MHz Deck REC.	4 KHz +/- 1 KHz
TAPE SPEED	MOTOR	SPEAKER OUTPUT	-	3000Hz +3/-2%
DECK R/P HEAD ADJ.	R/P HEAD	SPEAKER OUTPUT	8 KHz TEST TAPE	-





PRACTICAL SERVICE FIGURE

< TUNER SECTION >

< FM SECTION >

IHF Sensitivity:	Less than 15dB (at 87.5MHz)
(THD 3%)	Less than 19dB (at 98.0/108.0MHz)
Signal to noise ratio:	More than 60dB
(Input 54dB)	(at 98.0MHz)
Distortion:	Less than 2.0%
(Input 54dB)	(at 98.0MHz)
Auto stop level:	25±10dB (at 98.0MHz)
Stereo separation:	More than 30dB (at 98.0MHz)
Intermediate frequency:	10.7MHz

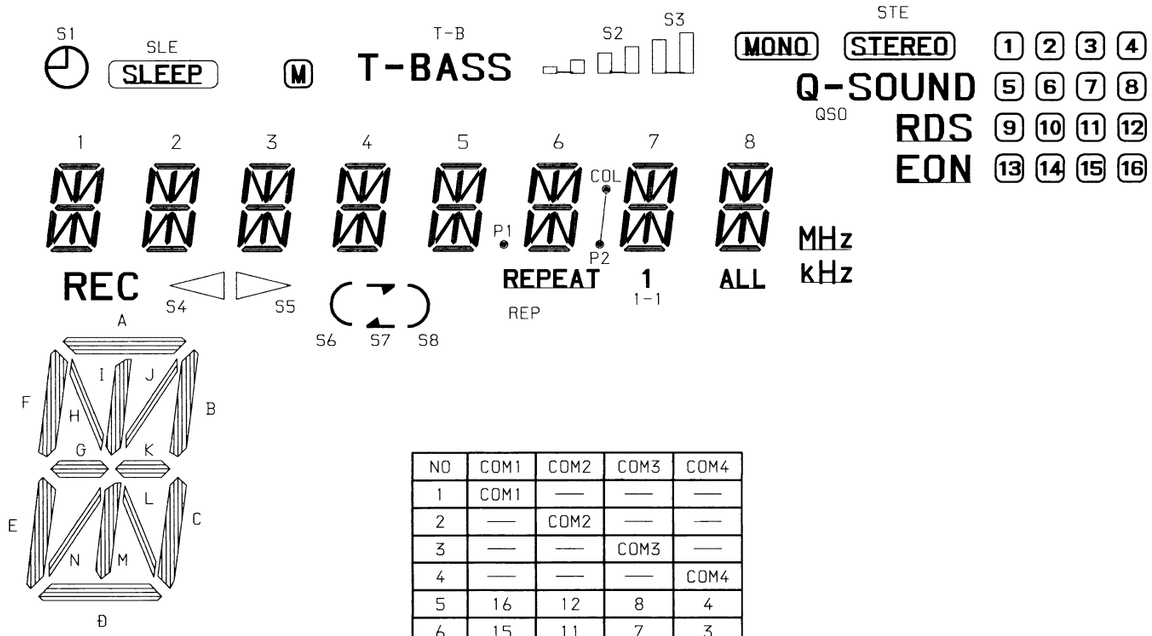
< AM SECTION >

Sensitivity:	Less than 50dB (at 603kHz)
(S/N 10dB)	Less than 49dB (at 999kHz)
	Less than 47dB (at 1404kHz)
Signal to noise ratio:	More than 33dB
(Input 74dB)	(at 999kHz)
Distortion:	Less than 2.0%
(Input 74dB)	(at 999kHz)
Auto stop level:	35-60dB (at 1000kHz)
Intermediate frequency:	450kHz

< TAPE SECTION >

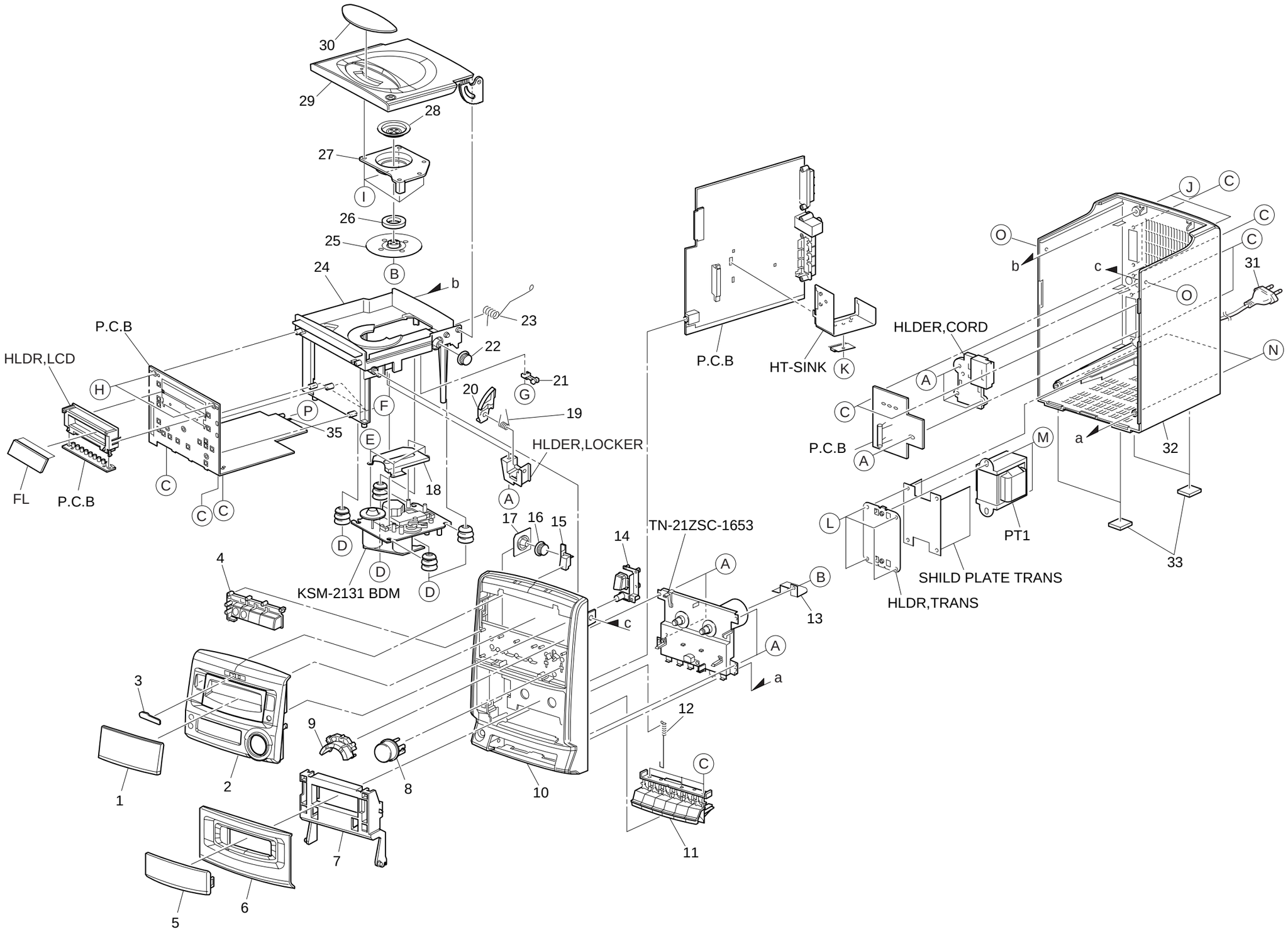
Tape speed:	3000Hz+3%/–2%
Wow & flutter:	Less than 0.35% (JIS, R.M.S)
Distortion:	Less than 3.0% (PB)
	Less than 7.0% (REC)
Signal to noise ratio:	More than 35dB (PB)
Erasing ratio:	More than 55dB
Cross talk:	More than 50dB
Separation:	More than 35dB

LCD DISPLAY



NO	COM1	COM2	COM3	COM4
1	COM1	——	——	——
2	——	COM2	——	——
3	——	——	COM3	——
4	——	——	——	COM4
5	16	12	8	4
6	15	11	7	3
7	14	10	6	2
8	13	9	5	1
9	EON	RDS	QSO	STE
10	ALL	KHz	MHz	1-1
11	8L	8C	8B	MONO
12	8M	8K	8J	8A
13	8N	8G	8H	8I
14	8Đ	8E	8F	REP
15	7L	7C	7B	——
16	7M	7K	7J	7A
17	7N	7G	7H	7I
18	7Đ	7E	7F	P2
19	6L	6C	6B	COL
20	6M	6K	6J	6A
21	6N	6G	6H	6I
22	6Đ	6E	6F	——
23	P1	S3	S2	T.B
24	5L	5C	5B	S8
25	5M	5K	5J	5A
26	5N	5G	5H	5I
27	5Đ	5E	5F	S7
28	4L	4C	4B	——
29	4M	4K	4J	4A
30	4N	4G	4H	4I
31	4Đ	4E	4F	S6
32	3L	3C	3B	M
33	3M	3K	3J	3A
34	3N	3G	3H	3I
35	3Đ	3E	3F	S5
36	2L	2C	2B	SLE
37	2M	2K	2J	2A
38	2N	2G	2H	2I
39	2Đ	2E	2F	S4
40	1L	1C	1B	S1
41	1M	1K	1J	1A
42	1N	1G	1H	1I
43	1Đ	1E	1F	REC

MECHANICAL EXPLODED VIEW 1/1



MECHANICAL PARTS LIST 1/1

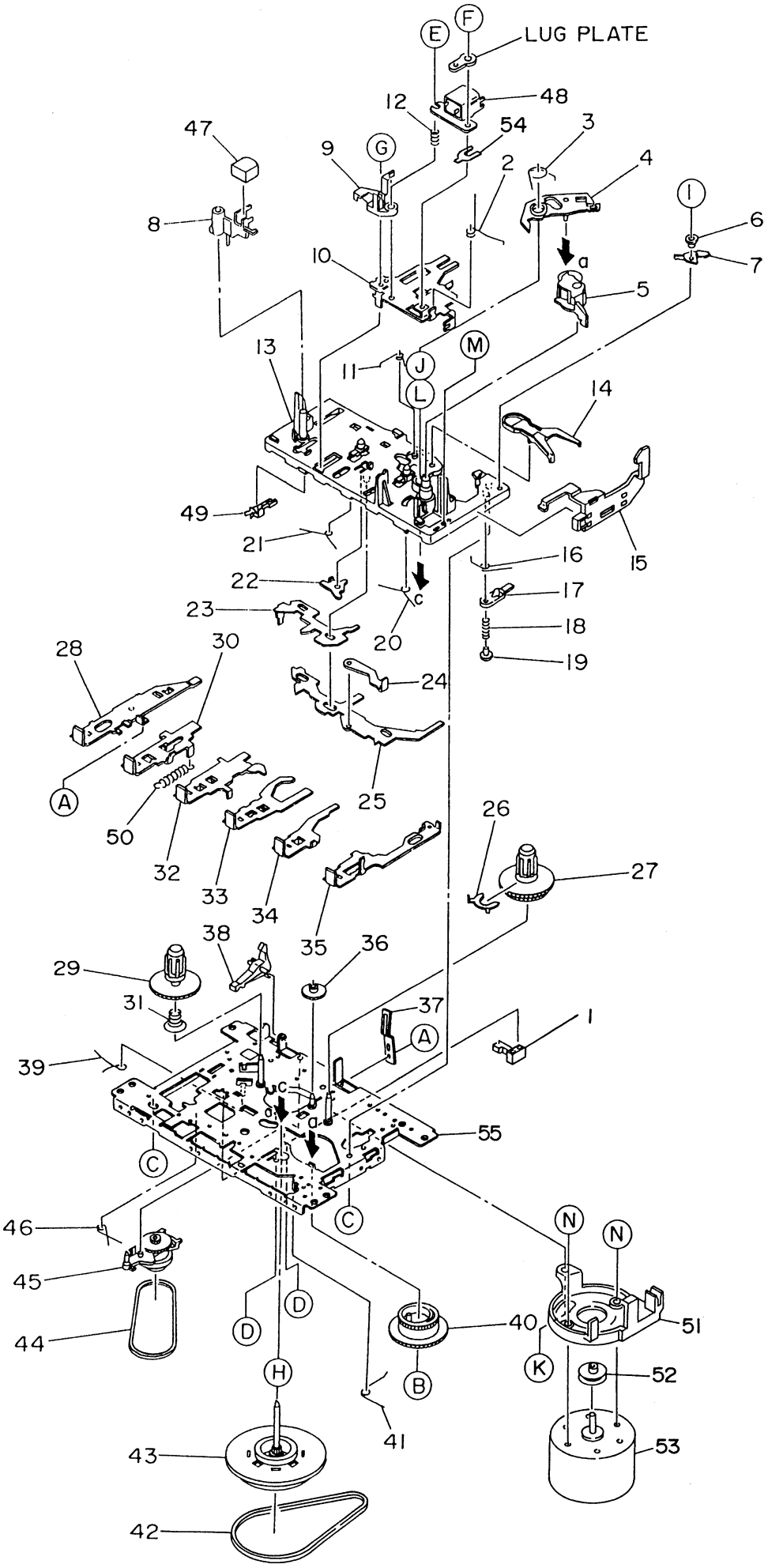
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	88-CG6-007-010		WINDOW,DISPLAY
2	88-CG6-005-010		PANEL,FRONT
3	84-CD8-083-010		BADGE,AIWA 30.5-5.2 2.5LEAD
4	88-CL6-019-010		KEY,CD
5	88-CL6-007-010		LENS,CASS
6	88-CG6-003-010		DOOR,CASS
7	88-CG6-006-010		DOOR,CASS BRACKET
8	88-CL6-043-010		KEY,VOLUME EX
9	88-CL6-045-010		KEY,EQ EX
10	88-CG6-001-010		CABI,FRONT
11	88-CG6-008-010		KEY,CASS SET
12	86-CL9-208-010		SPR-T,CASS
13	88-CL6-203-010		SPR-P,REC
14	88-CL6-044-010		KEY,AUX EX
15	88-CL6-014-010		KEY,POWER
16	84-CD5-215-010		GEAR
17	84-CD5-216-010		BRACKET
18	85-CD7-079-010		COVER, CD MECHA
19	87-CL5-212-010		DOOR,LOCK SPRIN G
20	87-CD7-206-010		DOOR,CD LOCKER
21	81-590-677-010		SWITCH LEAF
22	87-CD7-210-010		GEAR,CD DOOR
23	88-CL6-202-010		SPR-T,CD
24	88-CL6-006-010		CD,BRACKET
25	88-CD9-211-010		RING,CHUCK
26	87-036-368-010		MAGNET
27	88-CD9-210-010		BASE,CHUCK
28	84-CT5-209-010		PLATE,MAGNET
29	88-CG6-004-010		DOOR,CD
30	88-CL6-031-010		WINDOW,CD
⚠ 31	87-050-079-010		AC-CORD ASSY,E
32	88-CG6-002-010		CABI,REAR
33	86-CL9-017-010		FOOT,RBR
A	87-641-095-410		UT1+3-8
B	87-581-033-410		UIT+2-4
C	87-654-095-410		VT1+3-8CR
D	81-CD5-204-110		SCREW,CD
E	87-651-034-410		VT1+2-5
F	87-651-102-410		VT1+3-20
G	87-651-035-410		VT1+2-6
H	87-651-034-410		UT1+2-6
I	87-621-073-410		QT1+2.6-6
J	87-644-096-410		UT1+3-10CR
K	87-641-094-410		UT1+3-6
L	87-661-097-410		TAPPING SCREW, VFT1+3-12
M	87-067-566-010		VFTT+3-6
N	87-641-101-410		UT1+3-18
O	87-624-096-410		QT1+3-10CR
P	87-651-096-410		VT1+3-10CR

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

TAPE MECHANISM EXPLODED VIEW 1/1

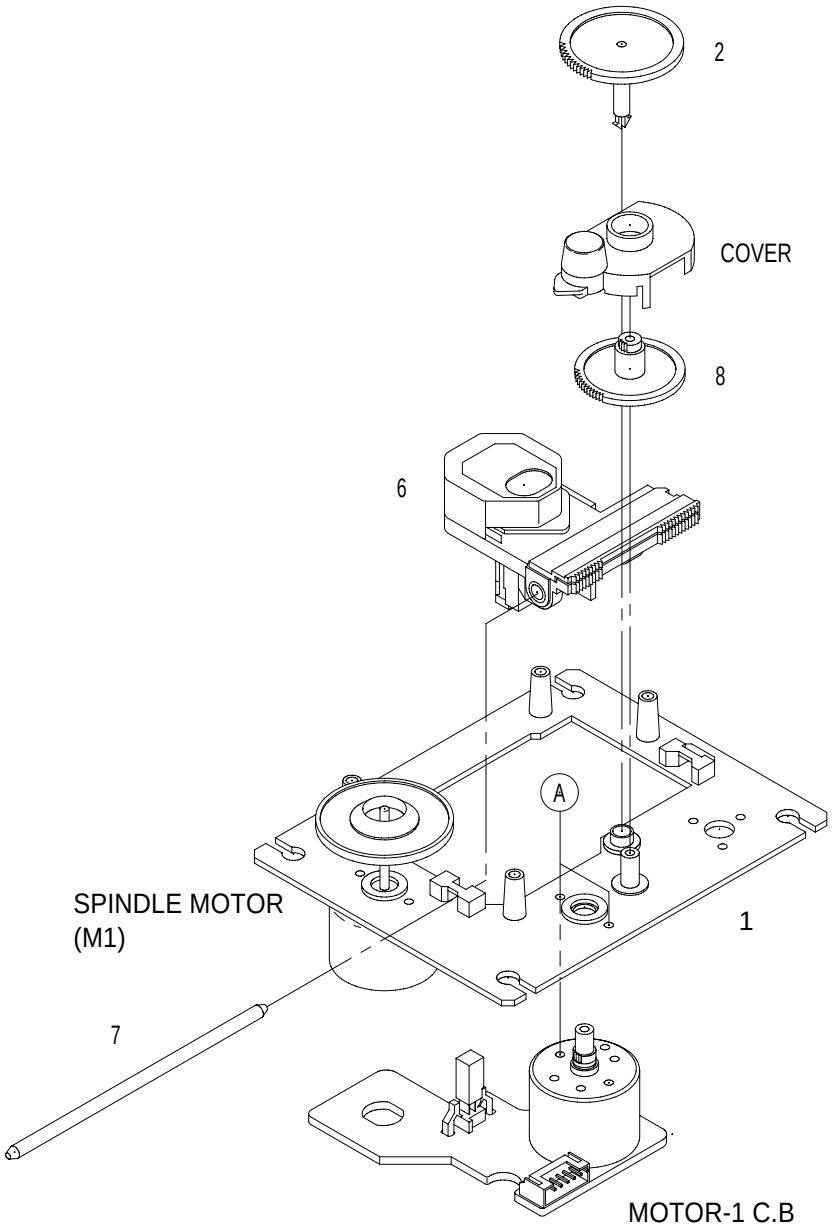


TAPE MECHANISM PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	S6-401-011-610		LEAF SW MSW-17820MVEI
2	S1-921-030-090		PANEL P SPRING
3	S1-921-260-050		GEAR PLATE SPRING
4	S1-921-265-020		GEAR PLATE ASSY
5	S1-921-043-090		PINCH ROLLER ARM ASY
6	S1-921-140-370		P ARM COLLER
7	S1-921-140-340		P ARM
8	S1-921-030-050		MG ARM
9	S1-921-030-4A0		HEAD BASE
10	S1-921-030-110		HEAD PANEL
11	S1-921-141-8A0		M CONTROL SPRING
12	S1-821-030-070		AZIMUTH SPRING
13	S1-921-143-010		BASE ASSY
14	S1-921-260-4A0		SENSING LEVER
15	S1-921-130-020		EJECT SLIDE LEVER
16	S1-921-141-3A0		P CONTROL SPRING
17	S1-921-140-550		PAUSE LEVER(E)
18	S1-921-140-120		PAUSE LEVER SPRING
19	S1-921-140-110		PAUSE STOPPER
20	S1-921-140-150		BUTTON LEVER SPRING(B)
21	S1-921-140-140		BUTTON LEVER SPRING(A)
22	S1-921-140-200		PR STOPPER
23	S1-921-140-090		SWITCH ACTUATOR
24	S1-821-011-590		E KICK LEVER
25	S1-921-140-080		PUSH BUTTON ACTUATOR
26	S1-921-050-060		SENSER
27	S1-921-053-030		TAKE UP REEL ASSY
28	S1-921-140-220		REC BUTTON LEVER
29	S1-921-053-040		SUPPLY REEL ASSY
30	S1-921-140-230		PLAY BUTTON LEVER
31	S1-821-100-990		BACK TENSION SPRING
32	S1-921-140-240		REW BUTTON LEVER
33	S1-921-140-250		FF BUTTON LEVER
34	S1-921-140-260		STOP BUTTON LEVER
35	S1-921-140-610		PAUSE BUTTON LEVER
36	S1-821-100-700		FF GEAR
37	S1-829-100-010		PACK SPRING
38	S1-821-100-690		RECORD SAFETY LEVER
39	S1-921-140-210		REC BUTTON LEVER SPRING
40	S1-921-260-020		CAM GEAR
41	S1-921-140-160		E ACTUATOR SPRING
42	S1-921-090-040		MAIN BBELT
43	S1-921-093-030		FLYWHEEL ASSY
44	S1-921-070-030		RF BELT
45	S1-921-073-080		RF CLUTCH ASSY
46	S1-921-140-170		P.S.LEVER SPRING
47	S6-209-100-100		E HEAD PH-K380-MS1
48	S6-201-011-110		HEAD,RP7442ES-0951
49	S6-401-011-490		LEAF SW MSW-1541T
50	S1-821-010-500		PLAY BUTTON LEVER SPRING
51	S1-821-128-9A0		MOTOR BRACKET
52	S1-921-120-010		MOTOR PULLEY
53	S6-002-030-220		MOTOR EG530AD-2B
54	S9-539-000-000		Y WASHER B.S 0.2T
55	S1-921-015-010		CHASSIS ASSY
A	S9-179-000-000		C TAP SCREW M2-3
B	S9-422-000-000		P WASHER CUT 12-3.8-0.3
C	S9-679-000-000		P TAP SCREW M2-5
D	S9-999-180-090		TAP SCREW M2-4.5
E	S9-922-000-000		AZIMUTH SCREW M2-8
F	S9-115-000-000		+ BIND SCREW M2-3
G	S9-004-000-000		SCREW M2-6
H	S9-882-000-000		P WASHER 2-3.5-0.4
I	S9-999-200-410		P TAP SCREW M2-3
J	S9-999-030-130		P WASHER CUT 1.45-3.8-0.
K	S1-921-120-030		MB SCREW
L	S9-999-000-030		P WASHER2.1-4-0.13
M	S9-P05-200-610		S TAPPING SCREWM2-6
N	S1-921-120-020		MOTOR COLLER SCREW

CD MECHANISM EXPLODED VIEW 1/1



CD MECHANISM PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	9X-262-587-010		MOTOR CHASSIS ASSY
2	92-626-907-010		GEAR(A)
6	98-848-376-110		OPTICAL PICK UP KSS-213B RP
7	92-626-908-010		SHAFT SLED
8	92-627-003-010		GEAR B
A	97-621-255-150		SCREW+P2-3

Note: REF.NOs. 3, 4 and 5 are not used.

ACCESSORIES/PACKAGE LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	88-CL5-628-010		ANT,LOOP
2	88-CG6-901-010		IB,H(EC-H)B
⚠ 3	87-A90-312-010		PLUG,CONVERSION WTN-1157R1
4	88-CG6-951-010		RC UNIT,RC-8AT05

サービス技術ニュース	
番号	連絡内容
G一　一	
G一　一	
G一　一	

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